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## MEMORANDUM

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ATTENTION	Senate	DATE	June 19, 2025
FROM	Dilson Rassier, Provost and Vice-President Academic, and Chair, SCUP	PAGES	1/179
RE:	Full Program Proposal for a Bachelor of Science in Economics Major and Honours (SCUP 25-40)		

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At its meeting on June 18, 2025, SCUP reviewed and approved the Full Program Proposal for a Bachelor of Science in Economics Major and Honours.

**Motion:** That Senate approve and recommend to the Board of Governors the Full Program Proposal for a Bachelor of Science in Economics Major and Honours in the Department of Economics within the Faculty of Arts and Social Sciences.

C: David Freeman, Undergraduate Chair, Department of Economics, FASS



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MEMORANDUM

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ATTENTION	Senate Committee on University Priorities	DATE	May 2, 2025
FROM	Paul Kingsbury, Vice-Chair	PAGES	1/1
	Senate Committee on Undergraduate		
	Studies		
RE:	Faculty of Arts and Social Sciences (SCUS 25-74)		

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Action undertaken by the Senate Committee on Undergraduate Studies at its meeting of May 1, 2025, gives rise to the following recommendation:

Motion

That SCUP approves the Full Program Proposal for the Bachelor of Science in Economics Major and the Bachelor of Science in Economics Honours in the Department of Economics within the Faculty of Arts and Social Sciences.

**For Information**

Included with the Full Program Proposal for the Bachelor of Science in Economics Major and the Bachelor of Science in Economics Honours and approved by SCUS under delegated authority are the following curriculum revisions effective Spring 2026:

New Course Proposal (SCUS 25-78):

- ECON 332-3, Computational Economics

**The relevant documentation for review by SCUP is attached.**



## **Bachelor of Science (BSc) in Economics**

Full Program Proposal

March 10, 2025

Faculty of Arts and Social Sciences

## **1 Executive Summary**

### **a) An overview of the institution's history, mission, and academic goals:**

As Canada's engaged university, Simon Fraser University is defined by its dynamic integration of innovative education, cutting-edge research and far-reaching community engagement. SFU was founded in 1965 with a mission to bring an interdisciplinary approach to learning, embrace bold initiatives, and engage with communities near and far. Today SFU is consistently ranked amongst Canada's top comprehensive universities and is one of the world's leading teaching and research institutions, and the Department of Economics consistently ranks in the top five in Canada for research output.

The proposed BSc in Economics program is designed to meet the needs of students looking for a more quantitative and data-driven approach to economics built for the age of data. The program builds on the combined strength of SFU's Department of Economics, while drawing from and complementing SFU's excellence in Computing Science, Mathematics, and Statistics. The BSc in Economics will train the next generation of data-driven economics graduates to take leading roles in BC's growing tech sector, understand and shape our changing economy, and solve BC's toughest problems.

### **b) Credential to be awarded:**

Bachelor of Science Major in Economics  
Bachelor of Science Honours in Economics

### **c) Location of program:**

Burnaby. All the courses required for this program are offered on the Burnaby campus. Some first year courses are also offered on the Surrey campus.

### **d) Faculty offering the proposed new program:**

Department of Economics in the Faculty of Arts and Social Sciences.

### **e) Anticipated program start date:**

Fall 2026

**f) Anticipated completion time:**

Four years with 8 semesters of full-time coursework.

**g) Summary of the proposed program**

- **Aims, goals, and objectives:**

An economics degree is designed to equip its graduates with a powerful set of theoretical and empirical tools to understand and analyze behaviour in market and non-market settings. Economics has historically been an excellent preparation for a variety of careers in the private sector and public policy. The discipline has consistently made heavy use of quantitative methods and data analysis, which in recent years has led many graduates to obtain employment as data scientists.

Economists are ideally suited to contribute to teams working in data science and tech, especially in topics like trade, finance, pricing strategy, and policy, by bringing in both strong social science training and strong quantitative skills. However, like almost all economics BA programs, SFU's BA in Economics generally provides less technical training than a BSc degree in computer science or statistics. The training in the BA program is appropriate for many of our graduates who obtain jobs in banking or policy that do not directly use advanced technical skills. We do teach statistical and scientific programming as used in economics in both core and especially in elective classes. However, graduates are increasingly looking for and finding employment in data science and related roles. They report that while they strongly benefited from their technical training in economics courses, they need to brush up on algorithms, general purpose programming, the mathematics behind machine learning, and related technical topics. Economics MA and PhD graduates are similarly in high demand in consulting, tech, data science, and academia, but our undergraduate BA program requirements only cover the bare minimum training in the technical skills that enable a student to excel at the graduate level.

The proposed Bachelor of Science (BSc) in Economics will complement our core programs (BA Major and Honours in Economics) by offering a credential that integrates foundational grounding in mathematics, computer programming, quantitative modelling, and data analysis with a thorough grounding in economics. This approach aligns with similar BSc programs in Economics offered in British Columbia and other provinces across Canada and capitalizes on SFU's strength in both economics and applied sciences.

The BSc in Economics program is designed so that students can develop the strong quantitative and data analysis skills more typical of a science graduate

along with the strong grounding in social sciences typical of an economics graduate. The program will be attractive to students with strong quantitative and scientific backgrounds who wish to pursue a career in Economics and credibly signal their technical skills to prospective employers and other educational institutions. Moreover, the proposed program will provide increased opportunities for interdisciplinary collaboration across SFU faculties.

- **Contribution to the mandate and strategic plan of the institution:**

The proposed BSc in Economics program will contribute to two key areas of priority identified in SFU's strategic plan. First, it will help SFU **make a difference for BC**. Our province has booming resource, service and high-tech sectors that require professionals with strong quantitative, scientific and data analysis skills. The proposed program will contribute to training these professionals and prepare our graduates to spur innovation in BC. Second, the BSc will contribute to **transforming the SFU experience**. Our proposed curriculum provides a compelling program both for students and for employers looking for the package of quantitative and social science skills the program will offer.

The proposed program also aligns with the FASS academic plan goals to **enhance the student experience**. The curriculum is structured to nurture the interests of students drawn to economics as a highly analytical discipline that applies a rigorous toolkit grounded in mathematics, econometrics, and quantitative computation. This in turn will enhance these students' ability to engage with cutting-edge research that uses this toolkit. These same tools are widely sought by our existing undergraduates and will provide them a strong foundation to succeed in the many data-intensive economics roles in today's workforce. Ultimately, we expect that the program's rigorous quantitative, data-driven and scientific approach will stimulate students' curiosity, encourage them to engage in new learning opportunities, and deepen their understanding of the complex world in which we live.

**Linkages between program outcomes and curriculum design:**

The proposed BSc in Economics will produce graduates in Economics with strong quantitative modelling, computational, and scientific skills. To achieve this, the curriculum includes the following key components:

Economics: The program builds on the core curriculum of the existing BA in Economics, which includes foundational courses in microeconomics, macroeconomics, and econometrics. These courses equip students with the essential statistical and analytical tools used in modern economics. Like the BA, the BSc will include upper-division elective courses that apply economic analysis to specialized fields such as finance, labour, or law. While the BSc will require

fewer such UD elective courses due to its focus on quantitative skills, the required quantitative courses in econometrics, data analysis, computational skills, and modelling are all tailored to examine economic questions, applications, and datasets. Thus the program will provide the same amount of economics training as the BA, but with a more quantitative and data-oriented approach. The Honours sequence offers students additional preparation for research-oriented graduate programs and jobs in economics by requiring advanced courses in economics and econometrics, culminating in a capstone research project.

Quantitative skills: The BSc in Economics provides strong foundational skills in mathematics by requiring at least four undergraduate mathematics courses and a course in statistics (MATH 151, 152, 240, 251 or substitutes, plus STAT 270 or substitute). This is followed by an economics curriculum that develops how these foundational skills in mathematics can be used to model market and non-market behaviour, analyze policies. The program includes at least three further courses in data analysis and econometrics (statistics for economic data) and a new required course in computational economics.

Programming and computing skills: To develop programming and computing skills, the BSc in Economics includes at least two foundational courses in computing (CMPT 120 and CMPT 125 or substitutes) followed by a dedicated course in computational economics (ECON 332) that teaches the application of computation to economic modelling and data analysis. The program also requires upper-level economics courses (ECON 334, 335, and 435) that focus on developing and applying econometric tools and techniques to visualize and analyze economic data.

Scientific approach: In addition to the BSc in Economics program's mathematics and computing science requirements, students are required to complete two additional courses from the Faculties of Science or Applied Sciences. This will ensure that graduates of the program have the foundational grounding in the sciences to work effectively with colleagues from and new techniques developed in sciences, especially computing science, mathematics, and statistics. Moreover, honours students will be allowed to complete some of their upper division electives in mathematics, statistics, and computer science.

- **Potential areas/sectors of employment for graduates or opportunities for further study:**

Economist, business analyst, product manager, policy analyst, research analyst, data analyst, and data scientist roles in business, tech, finance, economics, public policy, regulation/litigation, and research.

The degree is ideal preparation for a Master's or PhD program in Economics or Public Policy. With the right choice of electives, the degree could also be a building block for a student seeking to complement their economics degree with a professional Master's focused on data science or "big data".

- **Delivery methods:**

The program will be delivered in person.

- **Program strengths:**

The proposed program will be the only BSc in Economics offered in the Lower Mainland, and boasts rigorous quantitative, programming, and analytical requirements. This feature will uniquely position our graduates to take top positions in data science, business analysis, and policy analysis, especially in tech, science, and engineering-dominated industries where economists are currently in the minority.

Additionally, the proposed BSc program will complement our BA programs by allowing us to offer more options for our students. Our existing BA gives a student a foundation in economic theory and econometrics while providing them a broad set of options to develop expertise in fields of economics aligned with their interests. It prepares our students for jobs in public policy or banking and finance. By offering a BSc in Economics with increased programming, data-analysis, quantitative components, we can better serve our students' diverse interests and provide multiple paths to a broader range of careers and further education in the field of economics.

- **Level of support and recognition:**

We are structuring the BSc program based on existing courses, so we anticipate using the same transfer agreements already in place with other institutions through the BCCAT system. This feature will facilitate transfers into the program for students from other post-secondary institutions within the B.C. system.

The proposed BSc program includes all economics course requirements in our current BA degree and has a similar overall structure to University of Victoria's successful BSc in Economics. Thus, this degree will be accepted by graduate or professional schools. The results of our consultations with the Department of Economics at the University of Victoria and the University of British Columbia speak to this. Both institutions are supportive of the program. For example, Prof. Elisabeth Gugl from University of Victoria wrote "I think the program is well structured and will serve its stated purpose." In our Zoom consultation, Prof.

Jonathan Graves from University of British Columbia remarked that our proposed BSc program is similar to the well-established BSc programs like University of Victoria (from which he graduated). This demonstrates that the other leading universities support our proposed BSc offering and will recognize the value of the credential, including for graduate studies.

We have consulted co-founders of Vancouver-based start-ups in digital marketing (Jordan Gutierrez, COO of Wishpond) and economic data science (Dr. Rogayeh Tabrizi, CEO of Theory + Practice). Both write about how their own economics education at SFU provided the foundation of their success. Jordan Gutierrez writes:

“I graduated from SFU in 2010 with a BA in Economics. My economics education provided an important basis for my subsequent success. understanding opportunity costs, the supply and demand sides of a market, and data analytics skills taught in econometrics – have been invaluable to my own success in the business world. With the rise of the web and now AI, having a strong understanding of economic fundamentals is more important than ever, and SFU’s Economics program provides a great foundation.

The proposed BSc program is well designed to build on that foundation while providing an even stronger foundation in computing and data analytics. It will train the type of skills and thinking that lie behind our success at Wishpond and that are in short supply in BC’s burgeoning tech sector. For these reasons, I strongly support the proposed BSc program in Economics.”

Dr. Rogayeh Tabrizi writes:

“I am writing to express my strong support for the proposed BSc in Economics at SFU.

As the founder and CEO of Theory+Practice, a technology company specializing in the intersection of behavioral economics and AI, I have seen firsthand how critical economic thinking is in driving meaningful business outcomes. While earning my PhD in Economics at SFU, I became deeply engaged with behavioral economics, game theory, and the study of social network behavior. This foundation ultimately led me to co-found Theory+Practice, where we help some of the world's largest corporations unlock millions in revenue and efficiencies by applying economic intuition to data-driven decision-making.

My own academic journey reinforces the importance of an interdisciplinary approach to economics. Transitioning from a master's in physics to economics required a fundamental shift in mindset. Many of the modeling tools felt familiar, but it took nearly three years to realize that economics requires a different way of thinking—one that goes beyond solving predefined problems to identifying the right questions in the first place. This ability to bridge abstract models with real-world applications has been invaluable in my career, yet I often find it lacking in data scientists trained solely in physics, computer science, or engineering.

The proposed BSc program is well-positioned to fill this gap. By equipping students with both economic reasoning and technical proficiency, it will produce graduates who can add significant value to interdisciplinary data science teams and contribute to BC's growing technology sector.

I am eager to support this initiative in any way I can—formally or informally—to help the program reach its full potential. I look forward to seeing it come to life.”

We also received a letter of support from Dr. Jeremy Kronick, Vice President – Economics and Strategy of the CD Howe Institute. He writes:

“I am Vice-President, Economic Analysis and Strategy at the C.D. Howe Institute, where I lead the Centre on Financial and Monetary Policy, producing research in these critical areas of the Canadian economy. The C.D. Howe Institute is Canada's most influential economic and public policy think tank distinguished by research that is nonpartisan, evidence-based, and subject to definitive expert review.

The Institute employs graduate-level (Masters and PhD) economists to lead our different research areas, from financial services and monetary – which I head – to trade, energy, health, human capital, fiscal and tax, and pensions, among others. Our research is both highly technical (theoretical and empirical) and relevant to the Canadian economy, and we look for graduates that have the requisite interest and knowledge. It is critical to our success that universities across this country graduate economists who have the necessary technical, computational, and data analytical skills to produce the kind of policy-relevant research that has real impact with Canadian regulators and policymakers. The Institute judges its success based on the impact we have on policy, and, ultimately, improvements in Canadian living standards. This success comes in large part from having the highest quality labour Canadian post-secondary institutions can produce, with a particular focus in economics. I am confident that the criteria laid out in the proposed BSc program in Economics will be an important step in that direction.”

These letters demonstrate that the BSc program has the support of the leading economics-adjacent tech leaders in BC, the most important Canadian think tank for economic policy, and BC's leading two other universities.

- **Related programs:**

There is no similar program at SFU or any other Vancouver-area post-secondary institution. The proposed program will be the first of its kind in the Lower Mainland.

The only comparable programs in British Columbia are:

1. BSc in Economics (Major and Honours) at the University of Victoria

2. BSc in Economics at UBC Okanagan.
3. BSc joint Major in Economics and Mathematics at University of Northern B.C.

In addition, UBC's Vancouver School of Economics offers combined BA and BSc Major programs in (1) Economics and Mathematics and (2) Economics and Statistics. In contrast, SFU's proposed BSc is firmly an Economics degree that draws from lower-division coursework in Mathematics and Computing Science but is focused on economics in years 3 and 4. Our proposed BSc would very naturally pair with a Minor in subjects like Computing Science or Statistics, and such a combination is possible given the BSc in Economics program's proposed requirements and SFU's existing rules.

SFU's Department of Economics consistently ranks within the top five economics departments in Canada in research output,<sup>1</sup> whereas none of the BSc in Economics programs in BC listed above is in a department that ranks in the top fifteen. Due to their geographical location and relative ranking, none of these programs would be seen as competitors for our target student population.

Outside of BC, only six other Canadian post-secondary institutions offer a similar BSc in Economics program. These are Acadia University, Dalhousie University, the University of New Brunswick, the University of Windsor, the University of Regina, and Trent University.

**h) Contact information:**

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## **2 Credential Recognition and Nomenclature**

### **2.1 Post-secondary recognition**

Since the program will still be a Bachelor's degree, with economics requirements similar to our current BA degree, we do not expect any issues with this degree being accepted by graduate or professional schools as an economics degree, similar to our current BA in Economics degree. Many schools worldwide designate their economics degree as a BSc instead of a BA, and in Canada some offer both options with the designation reflecting different requirements. Our program requirements

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<sup>1</sup> <https://rankings.tilburguniversity.edu/public/1>

are very similar to U Victoria's longstanding BSc Major in Economics. Moreover, our BSc program requirements match or exceed the stated requirements in economics and mathematics for entry into every economics MA program in Canada, ensuring our graduates are well-prepared for graduate study at top economics graduate programs. Consultations with University of Victoria and University of British Columbia, quoted above and published in the Appendix, attest to this.

## **2.2 Industry/employer recognition**

The BSc in Economics does not lead to a regulated professional designation. However, we have consulted with industry leaders and found broad support for our program to meet demand for a combination of the traditional skillset of an economics degree with strong programming, quantitative, and data skills.

In particular, I have consulted with two industry leaders in digital marketing (Jordan Gutierrez, COO of Wishpond) and in economic data science (Dr. Rogayeh Tabrizi, CEO of Theory and Practice). I have also consulted with Canada's leading think tank for economic issues (Dr. Jeremy Kronick, VP Economics and Strategy of CD Howe Institute). All strongly endorse the program and have written letters of support, which I have excerpted earlier.

## **3 Curriculum/Program Content**

### **3.1 Program structure**

The proposed BSc in Economics program will build on and complement the Department's current BA Major and Honours programs in Economics. Compared to the BA programs, the BSc program will involve mathematics, computer science, and science requirements at the lower-division level, and will require upper-division economics courses that focus on quantitative modelling and data analysis skills. Like all existing SFU Economics programs, the BSc and BSc Honours programs will require 120 credits, including at least 30 upper division credits in Economics. The BSc and BSc Honours programs will also be subject to Faculty-level degree requirements, which will be revised to include these programs. Below, we highlight in **bold** the differences between the proposed BSc program and the existing BA program.

None of the proposed programs will require a practicum term. However, similar to the BA Honours in Economics, the BSc Honours in Economics will require a capstone research project.

#### Lower division requirements (BSc Major and BSc Honours)

- ECON 103 Principles of Microeconomics (4) or ECON 113 Introduction to Microeconomics (3)
- ECON 105 Principles of Macroeconomics (4) or ECON 115 Introduction to Macroeconomics (3)
- ECON 201 Microeconomic Theory I (4)
- One of
  - MATH 150 Calculus with Review (4)
  - MATH 151 Calculus I (3)
  - MATH 154 Calculus I for the Biological Sciences (3)
  - MATH 157 Calculus I for the Social Sciences (3)
- **One of**
  - **MATH 152 Calculus II (3)**
  - **MATH 155 Calculus II for the Biological Sciences (3)**
  - **MATH 158 Calculus II for the Social Sciences (3)**
- **MATH 251 Calculus III (3)**
- **One of**
  - **MATH 232 Applied Linear Algebra (3)**
  - **MATH 240 Algebra I: Linear Algebra (3)**
- One of
  - ECON 233 Introduction to Economic Data and Statistics (3)
  - STAT 270 Introduction to Probability and Statistics (3)
  - STAT 271 Probability and Statistics for Computer Science (3)
- ECON 220W Communication in Economics (4)
- **One of**

- **CMPT 120 Introduction to Computing Science and Programming I (3)**
- **CMPT 130 Introduction to Computer Programming I (3)**
- **ENSC 151 Introduction to Software Development for Engineers (4)**
- **One of**
  - **CMPT 125 Introduction to Computing Science and Programming II (3)**
  - **CMPT 135 Introduction to Computer Programming II (3)**
  - **ENSC 180 Introduction to Engineering Analysis (3)**
  - **ENSC 251 Software Design and Analysis for Engineers (4)**
  - **MSE 152 Digital Computing Fundamentals (3)**
  - **STAT 260 Introductory R for Data Science**
- **At least six further lower-division credits from the following list (or by approval):**
  - **CMPT 225 Data Structures and Programming**
  - **CMPT 276 Introduction to Software Engineering**
  - **MACM 101 Discrete Mathematics I**
  - **MACM 201 Discrete Mathematics II**
  - **MACM 203 Computing with Linear Algebra**
  - **MACM 204 Computing with Calculus**
  - **MATH 208 W Introduction to Operations Research**
  - **MATH 242 Introduction to Analysis I**
  - **MATH 260 Introduction to Ordinary Differential Equations**
  - **STAT 240 Introduction to Data Science**

- **STAT 260 Introductory R for Data Science**
- We recommend that students take MATH 150 or 151, MATH 152, CMPT 120, and CMPT 125 to satisfy the above program requirements.
- Students interested in pursuing upper division electives in Computing Science are advised to take MACM 101 and CMPT 225 in the first two years of the program.
- Students interested in pursuing upper division electives in Statistics are advised to take STAT 260 in the first two years of the program.

Upper division requirements (BSc Major)

- ECON 302 Microeconomic Theory II: Strategic Behavior (4)
- ECON 305 Intermediate Macroeconomic Theory (4)
- ECON 333 Statistical Analysis of Economic Data (4)
- **ECON 332 Computational Economics (3)**
- **One of**
  - **ECON 334 Data Visualization and Economic Analysis (3)**
  - **ECON 335 Cause and Effect in Economic Data (3)**
- **ECON 435 Econometric Methods (5)**
- At least one additional 400-level course in Economics
- Elective courses to complete 30 upper-division credits in Economics.
- At least 45 upper-division credits.

Upper division requirements (BSc Honours)

All requirements of the BSc, as well as:

- ECON 402 Advanced Microeconomic Theory (4)
- ECON 403 Advanced Macroeconomic Theory (3)

- ECON 494 Honours Research Proposal (3)
- ECON 499W Honours Research Project (6)
- Elective courses to complete 48 upper division elective courses from Economics **and approved courses in Mathematics, Statistics, and Computing Science (including at least 36 upper division credits in Economics).**<sup>2</sup>
- At least 60 upper-division credits.

The third-year course in computational economics (ECON 332) will need to be created for the BSc program.

Note that the department is beginning the process of reviewing its core courses aside from the first year (ECON 201, 302, 305, 333). We plan to jointly revise the organization of the curriculum to better suit the needs of both our BA and of the BSc program. After the initial cohorts, once enrolment in the BSc reaches 60 students per cohort, we plan to create specialized versions of ECON 302, 305, and ECON 333 (with separate course codes) to better suit the needs of BSc students.

### 3.2 Core courses

#### [ECON 103](#) - *Principles of Microeconomics* (4)

*The principal elements of theory concerning utility and value, price and costs, factor analysis, productivity, labor organization, competition and monopoly, and the theory of the firm. Quantitative/Breadth-Soc.*

#### [ECON 105](#) - *Principles of Macroeconomics* (4)

*The principal elements of theory concerning money and income, distribution, social accounts, public finance, international trade, comparative systems, and development and growth. Quantitative/Breadth-Soc.*

#### [ECON 201](#) - *Microeconomic Theory I: Competitive Behavior* (4)

*Aspects of microeconomic theory involving competitive markets. Topics include the behavior of households and firms, partial equilibrium analysis of product and factor markets, and general equilibrium. Prerequisite: [ECON 103](#) with a minimum grade of C- or [ECON 113](#) with a minimum grade of A-; [ECON 105](#) with a minimum grade of C- or [ECON 115](#) with a minimum grade of A-; [MATH 150](#), [MATH 151](#), [MATH 154](#), or [MATH 157](#), with a minimum grade of C-. Quantitative.*

#### [ECON 220W](#) - *Communication in Economics* (4)

*Examine and review today's global economy through critical analysis of differing perspectives. Develop techniques and strategies for clear and effective written and oral communication of*

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<sup>2</sup> The BA Honours in Economics requires 48 upper division credits in Economics.

economic ideas. Improve critical and analytical thinking via the application of core principles to news stories or other economic data in writing and presentations. Prerequisite: [ECON 201](#) with a minimum grade of C-, minimum 30 units and no more than 80 units. Writing.

**[ECON 233](#) - Introduction to Economic Data and Statistics (3)**

Introduces statistical methods, concepts and their application to economic data using both spreadsheets (e.g., Excel) and a specialized statistical programming language such as R. Prerequisite: [MATH 150](#), [MATH 151](#), [MATH 154](#), or [MATH 157](#), with a minimum grade of C-; 15 units. [MATH 150](#), [MATH 151](#), [MATH 154](#), or [MATH 157](#) may be taken concurrently with [ECON 233](#). Students who have taken [ECON 333](#) first may not then take this course for further credit. [STAT 270](#) or [BUS 232](#) will be accepted in lieu of this course.

**[ECON 302](#) - Microeconomic Theory II: Strategic Behavior (4)**

Aspects of microeconomic theory concerned with strategic behavior, imperfect information, and market failure. Topics include game theory and oligopoly; uncertainty and insurance; asymmetric information and market power, externalities and public goods, together with related issues in welfare economics. Prerequisite: [ECON 201](#) with a minimum grade of C-; 60 units. Quantitative.

**[ECON 305](#) - Intermediate Macroeconomic Theory (4)**

Concepts and methods of analysis of macroeconomic variables -- consumption, investment, government and foreign trade. Classical and Keynesian models compared; analysis of economic statics and dynamics. Prerequisite: [ECON 201](#) with a minimum grade of C-; 60 units. Students with a minimum grade of A- in [ECON 103](#) and [105](#) at Simon Fraser University at their first attempt can complete [ECON 305](#) concurrently with [ECON 201](#) after 30 units. Students seeking permission to enroll on this basis must contact the undergraduate advisor in economics. Quantitative.

**[ECON 332](#) – Computational Economics (3)**

Computational tools and their applications in economics. Tools include how to solve linear and non-linear systems of equations, perform matrix operations, analyze constrained and unconstrained optimization problems, use iterative methods, and statistical approaches such as Monte Carlo simulations. Prerequisite: [ECON 201](#), [ECON 233](#) or [STAT 270](#) or [STAT 271](#). Corequisite: [ECON 305](#).

**[ECON 333](#) - Statistical Analysis of Economic Data (4)**

An introduction to the use and interpretation of statistical analysis in the context of data typical of economic applications. Prerequisite: [ECON 103](#) with a minimum grade of C- or [ECON 113](#) with a minimum grade of A-; [ECON 105](#) with a minimum grade of C- or [ECON 115](#) with a minimum grade of A-; [ECON 233](#), [BUS](#) (or [BUEC](#)) [232](#), or [STAT 270](#), with a minimum grade of C-; [MATH 150](#), [MATH 151](#), [MATH 154](#), or [MATH 157](#), with a minimum grade of C-; 60 units. Students with a minimum grade of A- in [ECON 233](#), [BUS](#) (or [BUEC](#)) [232](#) or [STAT 270](#) can take [ECON 333](#) after 30 units. Students seeking permission to enroll based on their [ECON 233](#), [BUS](#) (or [BUEC](#)) [232](#) or [STAT 270](#) grade must contact the undergraduate advisor in economics. Students with credit for [BUEC 333](#) may not take this course for further credit. Quantitative.

**[ECON 334](#) - Data Visualization and Economic Analysis (3)**

Explores how to recognize and learn from patterns in data using modern statistical software for the purpose of economic analysis. Introduces students to techniques for managing, visualizing, and analyzing data to answer real-world economic questions. Prerequisite: [ECON 233](#) or [BUS 232](#) or [STAT 270](#) or [POL 201](#), with a minimum grade of C-; [ECON 103](#) with a minimum grade of C-, or [ECON 113](#) with a minimum grade of A-, or [ECON 105](#) with a minimum grade of C-, or [ECON 115](#) with a minimum grade of A-. Students with credit for [POL 390](#), [STAT 341](#), or [STAT 452](#) may not take this

course for further credit. Students with credit for [ECON 387](#) under the title "Applied Data Analysis" may not take this course for further credit.

**[ECON 335](#) - Cause and Effect in Economic Data (3)**

Provides an introduction to statistical methods used to analyze causal questions and evaluate policies. Discusses various approaches to drawing causal inferences from observational data. Corequisite: [ECON 333](#).

**[ECON 402](#) - Advanced Microeconomic Theory (4)**

Advanced coverage of microeconomic theory for students intending to pursue graduate study in economics. Topics may include general equilibrium, game theory, and asymmetric information. Prerequisite: [ECON 302](#) and [331](#), with a minimum grade of C-. Students who have completed both [MATH 232](#) and [251](#) may substitute these courses for [ECON 331](#). Entry into this course requires a minimum CGPA of 3.0 or permission of the department. Quantitative.

**[ECON 403](#) - Advanced Macroeconomic Theory (3)**

Advanced coverage of macroeconomic theory for students intending to pursue graduate study in economics. Topics may include economic growth, business cycles, and monetary theory. Prerequisite: [ECON 302](#), [305](#) and [331](#), all with a minimum grade of C-. Students who have completed both [MATH 232](#) and [251](#) may substitute them for [ECON 331](#). Entry into this course requires a minimum CGPA of 3.0 or permission of the department. Quantitative.

**[ECON 435](#) - Econometric Methods (5)**

The application of econometric techniques to the empirical investigation of economic issues. Prerequisite: [ECON 201](#) and ECON (or BUEC) 333, all with a minimum grade of C-. Entry into this course requires a minimum CGPA of 3.0 or permission of the department. Quantitative.

**[CMPT 120](#) - Introduction to Computing Science and Programming I (3)**

An elementary introduction to computing science and computer programming, suitable for students with little or no programming background. Students will learn fundamental concepts and terminology of computing science, acquire elementary skills for programming in a high-level language, e.g. Python. The students will be exposed to diverse fields within, and applications of computing science. Topics will include: pseudocode; data types and control structures; fundamental algorithms; recursion; reading and writing files; measuring performance of algorithms; debugging tools; basic terminal navigation using shell commands. Treatment is informal and programming is presented as a problem-solving tool. Prerequisite: BC Math 12 or equivalent is recommended. Students with credit for [CMPT 102](#), [128](#), [130](#) or [166](#) may not take this course for further credit. Students who have taken [CMPT 125](#), [129](#), [130](#) or [135](#) first may not then take this course for further credit. Quantitative/Breadth-Science.

**[CMPT 125](#) - Introduction to Computing Science and Programming II (3)**

A rigorous introduction to computing science and computer programming, suitable for students who already have some background in computing science and programming. Intended for students who will major in computing science or a related program. Topics include: memory management; fundamental algorithms; formally analyzing the running time of algorithms; abstract data types and elementary data structures; object-oriented programming and software design; specification and program correctness; reading and writing files; debugging tools; shell commands. Prerequisite: [CMPT](#)

[120](#) or [CMPT 130](#), with a minimum grade of C-. Students with credit for CMPT 126, [129](#), [135](#) or CMPT 200 or higher may not take this course for further credit. Quantitative.

### **[MATH 151](#) - Calculus I (3)**

Designed for students specializing in mathematics, physics, chemistry, computing science and engineering. Logarithmic and exponential functions, trigonometric functions, inverse functions. Limits, continuity, and derivatives. Techniques of differentiation, including logarithmic and implicit differentiation. The Mean Value Theorem. Applications of differentiation including extrema, curve sketching, Newton's method. Introduction to modeling with differential equations. Polar coordinates, parametric curves. Prerequisite: Pre-Calculus 12 (or equivalent) with a grade of at least A, or [MATH 100](#) with a grade of at least B, or achieving a satisfactory grade on the Simon Fraser University Calculus Readiness Test. Students with credit for either [MATH 150](#), [154](#) or [157](#) may not take [MATH 151](#) for further credit. Quantitative.

### **[MATH 152](#) - Calculus II (3)**

Riemann sum, Fundamental Theorem of Calculus, definite, indefinite and improper integrals, approximate integration, integration techniques, applications of integration. First-order separable differential equations and growth models. Sequences and series, series tests, power series, convergence and applications of power series. Prerequisite: [MATH 150](#) or [151](#) or [155](#), with a minimum grade of C-; or [MATH 154](#) or [157](#), with a grade of at least B. Students with credit for [MATH 158](#) or [251](#) may not take this course for further credit. Quantitative.

### **[MATH 240](#) - Algebra I: Linear Algebra (3)**

Linear equations, matrices, determinants. Real and abstract vector spaces, subspaces and linear transformations; basis and change of basis. Complex numbers. Eigenvalues and eigenvectors; diagonalization. Inner products and orthogonality; least squares problems. Applications. Subject is presented with an abstract emphasis and includes proofs of the basic theorems. Prerequisite: [MATH 150](#) or [151](#) or [MACM 101](#), with a minimum grade of C-; or [MATH 154](#) or [157](#), both with a grade of at least B. Students with credit for [MATH 232](#) cannot take this course for further credit. Quantitative.

### **[MATH 251](#) - Calculus III (3)**

Rectangular, cylindrical and spherical coordinates. Vectors, lines, planes, cylinders, quadric surfaces. Vector functions, curves, motion in space. Differential and integral calculus of several variables. Vector fields, line integrals, fundamental theorem for line integrals, Green's theorem. Prerequisite: [MATH 152](#) with a minimum grade of C-; or [MATH 158](#) with a grade of at least B. Also, for students in the life sciences, [MATH 154](#) with a minimum grade of C- and [MATH 155](#) with a minimum grade of A-. Recommended: It is recommended that [MATH 240](#) or [232](#) be taken before or concurrently with [MATH 251](#). Quantitative.

## **3.3 Existing and new courses**

Only ECON 332, Computational Economics, is a new course. The new course proposal and sample outline is included in the Appendices.

### 3.4 Curriculum and program goals

The BSc Major in Economics has the following educational goals. Students will learn to:

1. *Analyze and interpret economic models*
2. *Analyze and interpret economic data*
3. *Critically assess economic arguments, assumptions, and evidence*
4. *Use oral, written, and graphical methods to communicate economic insights*
5. *Use economic concepts to understand real-world human activity and public policy*
6. *Describe and analyze important economic institutions, events, and results*
7. ***Quantitatively analyze economic models***
8. ***Apply econometric analysis to answer economic questions using real-world data***
9. ***Acquire the foundational skills in mathematics, computer programming, and econometrics necessary to learn from new developments and techniques led by these areas, as they are relevant for economic analysis.***

The first six goals are shared with our BA program. The BSc program shares core and elective courses with the BA program to achieve these learning objectives. The last three goals differentiate the BSc program from our BA program.

ECON 332 specifically teaches students to quantitatively analyze economic models using a general programming language, in line with goal 7. This builds heavily on the foundations in economic theory, mathematics, and computation taught in other required courses.

ECON 334 and 335 are hands-on courses in data analysis that focus on working with, analyzing, and presenting economic analysis using data visualization (a focus in ECON 334) and tools the econometrics literature on measuring causal effects (a focus in ECON 335). ECON 435 builds on the student's background to provide a capstone course in econometrics that combines a deep foundation in modern econometric techniques, hands-on data analysis, and an econometrics project that applies these skills. These courses will achieve goal 8.

The BSc program requires completion of at least 24 credits in mathematics, computing science, and statistics taken in the Faculty of Science or Applied Science. While we could teach needed parts of this curriculum ourselves, we believe that it is crucially important to train economists who can work across disciplines with public policy-makers and computer scientists, engineers, and “data scientists” from scientific fields (e.g. mathematics, physics, statistics) and “data science”-branded programs. We believe that taking a substantial amount of coursework – almost an entire year's worth of courses in mathematically-oriented departments in sciences and applied sciences – BSc students will be well prepared to work with and learn from co-workers and developments in other technical disciplines that share mathematical foundations.

Calculus and linear algebra taught in the required math courses are broadly used in economic modeling. The econometrics tools taught in ECON 435 and the computational tools taught in ECON 332 specifically build heavily on concepts in calculus and linear algebra taught in required math courses. In addition, while economics courses (especially

ECON 332, 333, 334, 335, and 435) require a fair bit of coding, they generally focus on how to implement core techniques from economics and econometrics rather than how to write good code, algorithm design, and so on. The required computer programming courses will thus provide a complementary background that will achieve goal 9 while providing a foundation for the economics courses that achieve goals 7 and 8.

### **3.5 Work experience/field/practicum placement**

A work term is not required for the program.

## **4 Program Resources**

### **4.1 Target audience and enrolment plan**

This program will appeal to three categories of domestic and international students.

First, it will be of interest to students currently enrolled in (or considering) our BA in Economics programs but who want to pursue careers in industries where quantitative and scientific credentials are valuable or demanded, such as in roles that require strong quantitative, programming, or analytical skills, like data analysis, technology firms, or research. Data analysis is increasingly becoming an important skill in many but not all careers pursued by Economics graduates.

In our exit survey of BA in Economics graduates last year, 45% of respondents indicated that they would have liked to acquire more skills in quantitative analysis, data processing, and data analysis. We assume that about half of those respondents would take the BSc in Economics program. We had 371 Economics Majors and Honours graduates last year, so this yields an estimated 83 students in the BSc program.

Second, the BSc in Economics program will attract students from the Faculties of Science and Applied Science who are interested in studying a social science discipline while still pursuing and gaining recognition for strong quantitative and scientific training. Currently, around a third of students admitted to these faculties fail to graduate from SFU. Our program requirements are designed so that a student who completes one year in Engineering, Computer Science, or Mathematics can comfortably complete all lower division requirements of the BSc in Economics in their second year. This will improve student retention at SFU and improve the match of students' skills to appropriate educational and career paths.

Of direct admits in 2021, approximately 160 students in the Faculty of Science and 85 students in the Faculty of Applied Science did not continue to year 2. If 10% of these students switch to our BSc program, that would add 25 students each year.

Finally, the proposed BSc in Economics program will attract new students with strong quantitative skills and interests who would not have considered our Economic programs but would be interested in the strong market signal of a rigorous,

quantitatively oriented program with the “BSc” branding. A conservative estimate is this will attract an additional 10 students per year.

Our best estimate of enrolment within three years is thus 118 students per year. However, in the short run, we aim to enroll 50-60 students in the initial cohort expected to start in Fall 2026 as we get the program going.

## **4.2 Resources**

The lower-division courses required for the proposed BSc in Economics program are currently taught by continuing faculty members within the Department of Economics (FASS) as well as within the Faculties of Science and Applied Sciences. The Department of Economics comprises 36 faculty members, including 4 teaching faculty. The Faculties of Science and Applied Sciences collectively have over 500 full-time teaching equivalents (FTTE), with nearly 300 tenure-track faculty and more than 160 lecturers, alongside other teaching resources.

Given the existing teaching capacity and the need to develop only one new course, we do not anticipate that this program will necessitate changes in the composition or teaching load of current faculty members involved in the program. For example, the Faculties of Science and Applied Sciences together offer over 400 lower-division sections, with an average class size exceeding 100 students. We have consulted with the Departments of Mathematics, Statistics, and Computing Science. In the Department of Economics, we offer more than 90 undergraduate sections annually (including both lower and upper-division courses), with an average class size of approximately 80 students.

Only ECON 332 is a new course. The Department of Economics will introduce this course as an elective to be offered annually starting in Spring 2026.

## **5 Program Review and Academic/Administrative Oversight**

Program review will occur on the usual 7-year cycle as part of the regular department external review process.

## **6 Program Consultation**

We have reached out to representatives from the economics departments of University of British Columbia, University of Victoria, University of Toronto, and Langara College, as well as representatives of SFU departments including Computing Science, Mathematics, and Statistics. In addition, we have spoken at length with two leaders from the private sector, Rogayeh Tabrizi (CEO, Theory and

Practice) and Jordan Gutierrez (COO, Wishpond), and with a leader at a major Canadian think tank, Jeremy Kronick (VP, CD Howe Institute).

## 7 Evidence of Student Interest and Labour Market Demand

We anticipate strong student demand for the proposed program, based on three key pieces of evidence. First, during an exit survey conducted this summer among our BA graduates, 45% of respondents indicated that they would have liked to acquire more quantitative skills, data processing and analysis.

Second, in 2020, we introduced two new elective courses, ECON 334 and 335, focused on developing economic data analysis skills. These courses teach students to identify patterns in data using modern statistical software for economic analysis, as well as statistical methods for analyzing causal questions and evaluating economic policies. The courses have become highly popular, with enrollment increasing from 96 students in 2020-21 to 195 students in 2023-24—a growth of over 100% in just four years. The success of these courses, which are included as requirements in the proposed program, indicates a strong interest among our students in acquiring quantitative and analytical skills.

Finally, approximately one-third of students admitted to the Faculties of Science or Applied Sciences (around 300 per year) do not graduate at SFU. Many of these students have strong mathematical backgrounds that could lead to success in an Economics program. The structure of the BSc program ensures that students who complete the first year of a Computer Science, Engineering, or Mathematics program could comfortably complete all remaining lower division requirements for the BSc in their second year. This group represents a large potential pool of students who could be attracted to our program.

The proposed program will focus on training economists with strong quantitative, programming, and analytical skills. The Economics student advisors have observed that 40-60% of our recent BA graduates pursue jobs where data analysis is an important part of their job. This is consistent with the letters of support we have received. The BSc program is designed to better prepare students to take and excel in the more technical of these jobs.

The Canadian Occupational Projection System (COPS)<sup>3</sup> provides forecasts of future labour market shortages and surpluses from 2022 to 2031 by occupation. Statistics Canada provides 2021 Census data on occupations by major.<sup>4</sup> While there is incredible diversity in the occupations taken up by economics majors, the vast majority of economics graduates with only a bachelor's degree are in occupations

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<sup>3</sup> Canadian Occupational Projection System (COPS) Imbalances Between Labour Demand and Supply (2022-2031), Table 6, available at <https://occupations.esdc.gc.ca/sppc-cops/1.3bd.2t.1ilshtml@-eng.jsp?lid=60&fid=45&lang=en>

<sup>4</sup> Statistics Canada. Table 98-10-0404-01 Occupation by major field of study (detailed, 4-digit): Canada, provinces and territories, available at <https://www150.statcan.gc.ca/t1/tbl1/en/tv.action?pid=9810040401>

that COPS forecasts to be in balance – neither in shortage nor surplus.<sup>5</sup> However, COPS also forecasts shortages for computer engineers, programmers, mathematicians, statisticians and actuaries, and similar fields. While the BSc will firmly be an economics degree, it will train economics with a package of skills in mathematics, data analysis, and computer programming that are forecasted to be in high demand, and that many of our past graduates report using in their careers.

Looking again at the 2021 Census for further evidence on the types of jobs BSc graduates are likely to obtain,<sup>6</sup> we note that 6% of graduates with a bachelor's degree in Economics work in natural science and applied science occupations. However, this figure rises to 14% for graduates with a degree in Mathematical Economics and nearly 50% for those with a degree in Economics and Computing Science. This evidence suggests that an Economics program with a stronger emphasis on programming and mathematics could significantly enhance the employability of our graduates in these in-demand occupations.

Finally, forecasts from WorkBC indicate that professional, scientific, and technical services are among the occupations with the highest opportunities in BC. This sector is expected to create 11% of all new jobs (second only to health care at 17%) and experience job opening growth of 2.5% per year, nearly double the province-wide average of 1.2%. Within this sector, jobs related to computing systems design, management, and scientific and technical services are projected to grow the fastest.<sup>7</sup> BSc Economics graduates will be well positioned to contribute to this growing sector.

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<sup>5</sup> <https://occupations.esdc.gc.ca/sppc-cops/content.jsp?cid=occupationdatasearch&lang=en>, see the spreadsheet “Assessment of Projected Labour Market Conditions, 2022-2031”, and compare to <https://www150.statcan.gc.ca/t1/tbl1/en/tv.action?pid=9810040401> restricted to people Age 25-65, with Highest degree a “Bachelor’s degree”, and Major field of study “45.06 Economics”.

<sup>6</sup> <https://www150.statcan.gc.ca/t1/tbl1/en/tv.action?pid=9810040401>

<sup>7</sup> WorkBC. B.C.’s Labour Market Outlook: 2023 edition, Appendix 3, available at <https://www.workbc.ca/research-labour-market/bcs-labour-market-outlook-2023-edition>

## **8 Appendices**

### **8.1 Calendar entries**

#### **Calendar Entry for the BSc Major in Economics**

##### **Economics Major**

Bachelor of Science

##### **Declaration Requirements**

Students are eligible to declare entry to the program when they have met the following requirements

- 30 units completed
- ECON 201 completed with a C- or higher
- MATH 152 or 155 or 158 completed with a C- or higher
- a cumulative grade point average (CGPA) of 2.0 or higher
- an ECON program GPA of 2.0 or higher.

The department publishes the requirements for entry to the Economics programs at <https://www.sfu.ca/economics/undergraduate/advising/declaring.html>.

Students should contact a departmental advisor to apply. Students not accepted upon initial application may reapply.

##### **Continuation in Program**

To continue in an economics program, students must maintain a 2.0 CGPA.

##### **Course Information**

For a course to fulfill a prerequisite, or for a required course to be accepted in a student's economics program, a grade of C- or higher must be obtained.

Access to ECON 402, 403, 435 and 499W is restricted to students who have excelled in their studies. These advanced courses are recommended for students wishing to pursue more challenging work or who plan to complete an additional degree.

## **Program Requirements**

Students complete 120 units, as specified below.

In order to graduate, students must have a minimum ECON CGPA of 2.0 and a minimum ECON cumulative upper division grade point average (CUDGPA) of 2.0, calculated on all ECON courses completed at SFU.

## **Lower Division Requirements**

Students complete the following with at least a C- grade (unless otherwise indicated).

One of

ECON 103 Principles of Microeconomics (4) \*

ECON 113 Introduction to Microeconomics (3) \*\*

and one of

ECON 105 Principles of Macroeconomics (4) \*

ECON 115 Introduction to Macroeconomics (3) \*\*

and one of

MATH 150 Calculus with Review (4) \*

MATH 151 Calculus I (3) \*

MATH 154 Calculus I for the Biological Sciences (3)

MATH 157 Calculus I for the Social Sciences (3)

and one of

MATH 152 Calculus II (3) \*

MATH 155 Calculus II for the Biological Sciences (3)

MATH 158 Calculus II for the Social Sciences (3)

and one of

CMPT 120 Introduction to Computing Science and Programming I (3) \*  
CMPT 130 Introduction to Computer Programming I (3)  
ENSC 151 Introduction to Software Development for Engineers (4)

and one of

CMPT 125 Introduction to Computing Science and Programming II (3) \*\*\*  
CMPT 135 Introduction to Computer Programming II (3)  
ENSC 180 Introduction to Engineering Analysis (3)  
ENSC 251 Software Design and Analysis for Engineers (4)  
MSE 152 Digital Computing Fundamentals (3)  
STAT 260 Introductory R for Data Science (3) †

and all of

ECON 201 Microeconomic Theory I (4)  
ECON 220W Communication in Economics (4)  
MATH 251 Calculus III (3)

and one of

MATH 232 Applied Linear Algebra (3)  
MATH 240 Algebra I: Linear Algebra (3) \*

and one of

ECON 233 Introduction to Economic Data and Statistics (3)  
STAT 270 Introduction to Probability and Statistics (3) \*  
STAT 271 Probability and Statistics for Computer Science (3)

and at least six further lower division units from the following list (or by approval):

CMPT 225 Data Structures and Programming \*\*\*  
CMPT 276 Introduction to Software Engineering  
MACM 101 Discrete Mathematics I \*\*\*  
MACM 201 Discrete Mathematics II  
MACM 203 Computing with Linear Algebra  
MACM 204 Computing with Calculus  
MATH 208 W Introduction to Operations Research  
MATH 242 Introduction to Analysis I ††  
MATH 260 Introduction to Ordinary Differential Equations  
STAT 240 Introduction to Data Science  
STAT 260 Introductory R for Data Science †

\* recommended

\*\* ECON 113 or 115 with a minimum grade of B

\*\*\* Students interested in pursuing upper division electives in Computing Science are advised to take MACM 101, CMPT 125, and CMPT 225 in the first two years of the program.

† Students interested in pursuing upper division electives in Statistics are advised to take STAT 260 in the first two years of the program.

†† Students interested in graduate studies in Economics are advised to take MATH 242 in the second year of the program.

### **Upper Division Requirements**

To graduate, a minimum of 45 upper division units is required, of which at least 30\* must be in ECON, including

ECON 302 Microeconomic Theory II: Strategic Behavior (4)

ECON 305 Intermediate Macroeconomic Theory (4)

ECON 332 Computational Economics (3)

ECON 333 Statistical Analysis of Economic Data (4)

ECON 435 Econometric Methods (5)

and one of

ECON 334 Data Visualization and Economic Analysis (3)

ECON 335 Cause and Effect in Economic Data (3)

At least one additional 400-level course in Economics

\* The remaining 5-9 upper division ECON units can be completed with elective courses.

## Calendar Entry for the BSc Honours in Economics

### **Economics Honours**

Bachelor of Science

### **Declaration Requirements**

Students are eligible to apply for entry to the program when they have met the following requirements

- 30 units completed
- ECON 201 completed with a C- or higher
- MATH 152 or 155 or 158 completed with a C- or higher
- a cumulative grade point average (CGPA) of 3.0 or higher
- an ECON program GPA of 3.0 or higher.

The department publishes the minimum CGPA below which students will not normally be considered for entry to the Honours program. See <https://www.sfu.ca/economics/undergraduate/advising/declaring.html> for more information.

Students should contact a departmental advisor to apply. Students not accepted upon initial application may reapply.

### **Continuation in Program**

To continue in the Honours in Economics program, students must maintain a 3.0 CGPA.

### **Course Information**

For a course to fulfill a prerequisite, or for a required course to be accepted in a student's economics program, a grade of C- or higher must be obtained. Access to ECON 402, 403, 435 and 499W is restricted to students who have excelled in their studies. These advanced courses are recommended for students wishing to pursue more challenging work or who plan to complete an additional degree.

### **Lower Division Requirements**

Students complete the following with a grade of at least C- unless otherwise indicated.

One of

ECON 103 Principles of Microeconomics (4)\*

ECON 113 Introduction to Microeconomics (3) \*\*

and one of

ECON 105 Principles of Macroeconomics (4)\*

ECON 115 Introduction to Macroeconomics (3) \*\*

and one of

MATH 150 Calculus with Review (4) \*

MATH 151 Calculus I (3) \*

MATH 154 Calculus I for the Biological Sciences (3)

MATH 157 Calculus I for the Social Sciences (3)

and one of

MATH 152 Calculus II (3) \*

MATH 155 Calculus II for the Biological Sciences (3)

MATH 158 Calculus II for the Social Sciences (3)

and one of

CMPT 120 Introduction to Computing Science and Programming I (3) \*

CMPT 130 Introduction to Computer Programming I (3)

ENSC 151 Introduction to Software Development for Engineers (4)

and one of

CMPT 125 Introduction to Computing Science and Programming II (3) \*\*\*

CMPT 135 Introduction to Computer Programming II (3)

ENSC 180 Introduction to Engineering Analysis (3)

ENSC 251 Software Design and Analysis for Engineers (4)

MSE 152 Digital Computing Fundamentals (3)

STAT 260 Introductory R for Data Science (3) †

and all of

ECON 201 Microeconomic Theory I (4)

ECON 220W Communication in Economics (4)

MATH 251 Calculus III (3)

and one of

MATH 232 Applied Linear Algebra (3)

MATH 240 Algebra I: Linear Algebra (3) \*

and one of

ECON 233 Introduction to Economic Data and Statistics (3)

STAT 270 Introduction to Probability and Statistics (3) \*

STAT 271 Probability and Statistics for Computer Science (3)

and at least six further lower division units from the following list (or by approval):

CMPT 225 Data Structures and Programming \*\*\*

CMPT 276 Introduction to Software Engineering

MACM 101 Discrete Mathematics I \*\*\*

MACM 201 Discrete Mathematics II

MACM 203 Computing with Linear Algebra

MACM 204 Computing with Calculus

MATH 208W Introduction to Operations Research

MATH 242 Introduction to Analysis I ††

MATH 260 Introduction to Ordinary Differential Equations

STAT 240 Introduction to Data Science

STAT 260 Introductory R for Data Science †

\* recommended

\*\* with a minimum grade of B

\*\*\* Students interested in pursuing upper division electives in Computing Science are advised to take MACM 101, CMPT 125, and CMPT 225 in the first two years of the program.

† Students interested in pursuing upper division electives in Statistics are advised to take STAT 260 in the first two years of the program.

†† Students interested in pursuing graduate studies in Economics are advised to take MATH 242 in the second year of the program.

### Upper Division Requirements

To graduate, a minimum of 60 upper division units is required, of which at least 48 must be in ECON and approved courses in CMPT, MACM, MATH, and STAT, including

ECON 302 Microeconomic Theory II: Strategic Behavior (4)  
ECON 305 Intermediate Macroeconomic Theory (4)  
ECON 332 Computational Economics (3)  
ECON 333 Statistical Analysis of Economic Data (4)  
ECON 402 Advanced Microeconomic Theory (4)  
ECON 403 Advanced Macroeconomic Theory (3)  
ECON 435 Econometric Methods (5)  
ECON 494 Honours Research Proposal (3)  
ECON 499W Honours Research Project (6)

and one of

ECON 334 Data Visualization and Economic Analysis (3)  
ECON 335 Cause and Effect in Economic Data (3)

## **8.2 New Courses**

COURSE SUBJECT NUMBER 

COURSE TITLE LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation

COURSE TITLE SHORT — for enrollment/transcript, no more than 30 characters including spaces and punctuation

CAMPUS where course will be normally taught: ☒ Burnaby ☐ Surrey ☐ Vancouver ☐ Great Northern Way ☐ Off campus

COURSE DESCRIPTION — 50 words max. Attach a course outline. Don't include WQB or prerequisites info in this description box.

Computational methods for solving and analyzing economic models. Topics include solving systems of equations, optimization, computing equilibria of economic models, computing dynamic and stochastic models, and data-driven estimation. Students will apply these methods to conduct economic analysis using a general-purpose programming language like Python.

REPEAT FOR CREDIT ☐ YES ☒ NO Total completions allowed  Within a term? ☐ YES ☒ NO**LIBRARY RESOURCES**

NOTE: Senate has approved (S.93-11) that no new course should be approved by Senate until funding has been committed for necessary library materials. Each new course proposal must be accompanied by the email that serves as proof of assessment. For more information, please visit [www.lib.sfu.ca/about/overview/collections/course-assessments](http://www.lib.sfu.ca/about/overview/collections/course-assessments).

**RATIONALE FOR INTRODUCTION OF THIS COURSE**

A slightly more advanced version of this course is currently taught as a special topics course by Sev Hou at the 4th year. The current proposal makes it a third year elective to allow us to offer a computational economics course to more students. Computational Economics has historically been in high demand as a graduate elective, and many of our students pursue data and computationally intensive careers. However, we don't have a permanently-listed undergraduate course in computational economics.

This course will be a key component of our proposed BSc in Economics program.

**SCHEDULING AND ENROLLMENT INFORMATION**

Effective term and year (e.g. FALL 2016)

Spring 2026

Term in which course will typically be offered ☒ Spring ☐ Summer ☒ Fall

Other (describe)

Will this be a required or elective course in the curriculum? ☐ Required ☒ Elective

What is the probable enrollment when offered? Estimate:

60

**UNITS**

Indicate number of units:

3

Indicate no. of contact hours: 2 Lecture 0 Seminar ☐ Tutorial 1 Lab ☐ Other; explain below**OTHER****FACULTY**

Which of your present CFL faculty have the expertise to offer this course?

Sev Hou  
Victor Aguiar  
Minjie Deng**WQB DESIGNATION**

(attach approval from Curriculum Office)

**PREREQUISITE AND / OR COREQUISITE**

ECON 201 and one of ECON 233, STAT 270 or STAT 271. ECON 305 (recommended)

**EQUIVALENT COURSES** [For more information on equivalency, see Equivalency Statements under [Information about Specific Course components.](#)]

**1. SEQUENTIAL COURSE** [is not hard coded in the student information management system (SIMS).]

Students who have taken (*place relevant course(s) in the blank below (ex: STAT 100)*) **first** may not then take this course for further credit.

**2. ONE-WAY EQUIVALENCY** [is not hard coded in SIMS.]

(*Place relevant course(s) in the blank below (ex: STAT 100)*) will be accepted in lieu of this course.

**3. TWO-WAY EQUIVALENCY** [is hard coded and enforced by SIMS.]

Students with credit for (*place relevant course(s) in the blank below (ex: STAT 100)*) may not take this course for further credit.

Does the partner academic unit agree that this is a two-way equivalency? ☐ YES ☐ NO

*Please also have the partner academic unit submit a course change form to update the course equivalency for their course(s).*

**4. SPECIAL TOPICS PRECLUSION STATEMENT** [is not hard coded in SIMS.]

## FEES

Are there any proposed student fees associated with this course other than tuition fees? ☐ YES ☒ NO

## COURSE – LEVEL EDUCATIONAL GOALS (OPTIONAL)

Skills to compute the solution to economic models and conduct quantitative economic analysis using a general-purpose programming language.



RESOURCES

List any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc:

OTHER IMPLICATIONS

Final exam required ☒ YES ☐ NO

Criminal Record Check required ☐ YES ☒ NO

OVERLAP CHECK

Checking for overlap is the responsibility of the Associate Dean.

Each new course proposal must have confirmation of an overlap check completed prior to submission to the Faculty Curriculum Committee.

Name of Originator

David Freeman

**SIMON FRASER UNIVERSITY  
DEPARTMENT OF ECONOMICS**

**Course: ECON: 332**

**Title:** Computational Economics

**Semester: Fall 2025**

**Instructor: Chenyu (Sev) Hou**

**Description:**

The course will cover the following topics (subject to change):

1. Linear Models
  - Applications: Supply-demand; multi-product model; Least-squares
  - Methods: back substitution, LU decomposition, Gaussian Elimination, vectorization and matrix operations, solving system of equations, linear solvers
2. Optimization Models
  - Applications: Portfolio Choice; Finite period consumption; Static consumption-labor
  - Methods: Newton's Method; unconstrained and constrained optimization
3. Solving Dynamic and Equilibrium Models
  - Applications: Solow Model; Cobweb Model; Oligopoly; General Equilibrium.
  - Methods: Gaussian Jacobi; iterative methods, nonlinear solvers
4. Stochastic Economic Models
  - Applications: Elasticities, Evaluation of Expectations, Expected Utility, Option Values, Forecasting and Prediction.
  - Methods: Numerical Differentiation and Integration, Stochastic Processes, Autoregressive models, Monte Carlo Simulations.
5. Working with Data

The course will focus on computational tools and their applications in economics. The topics will be covered in this course include solving linear and non-linear systems of equations, matrix operations, constrained and unconstrained optimization, iterative methods, and statistical approaches such as Monte Carlo simulations.

Students will learn how to apply these computational tools to solve economic problems, including supply-demand analysis, portfolio choices, equilibrium dynamics, and forecasting problems. A general-purpose programming language (e.g. Python) will be used throughout the course. For each topic, the course will first lay out a simple theoretical framework, show how to solve theoretical problems computationally in the software, and apply these tools to conduct quantitative economic analysis.

The course will have bi-weekly group assignments that emphasize computation of the solutions to economic models.

**Prerequisite:**

**Grading:**

Assignments: 40%

Final: 50%

Participation: 10%

**Required Text:** Lecture notes and codes will be provided by the instructor.

**Recommended Texts:**

Judd, K. (1998) “Numerical Methods in Economics”

QuantEcon website (<https://intro.quantecon.org/>)

**\*\*NO TUTORIALS DURING THE FIRST WEEK OF CLASSES\*\***

**For more information about SFU Economics, please visit our website:  
[www.sfu.ca/economics](http://www.sfu.ca/economics)**

## Economics Manager

---

**From:** Megan Crouch  
**Sent:** Wednesday, February 12, 2025 1:47 PM  
**To:** Economics Manager  
**Cc:** Lorraine Kwan; Mark Bodnar  
**Subject:** Library Report: ECON 332  
**Attachments:** Econ332outline.doc; ECON332Proposal.pdf

Dear Carina,

I've reviewed the proposal for ECON 332: Computational Economics.

No additional library resources will be required to support this course *at this time*.

**This email will serve as your record that the Library has conducted the assessment of the proposal as it moves through the approval process.** Once the course has been approved by Senate, it will appear on this list: <http://www.lib.sfu.ca/about/overview/collections/course-assessments/arts-social-sciences>

Please let me know if you have any questions.

Best,  
Megan

Megan Crouch (she/her)  
Collections Librarian  
W.A.C. Bennett Library | Simon Fraser University  
Occupied Squamish, Tsleil-Waututh, and Musqueam Territories.

Begin forwarded message:

**From:** Economics Manager <economics\_manager@sfu.ca>  
**Subject:** ECON 332 New Course Proposal / Library Assessment  
**Date:** January 28, 2025 at 5:54:08 PM PST  
**To:** "lib-courseassessment@sfu.ca" <lib-courseassessment@sfu.ca>

Hi Megan,

Please find attached our new course proposal for ECON 332-Computational Economics.

We are hoping to submit this to FASS UCC by Feb. 27.

Best,  
Carina

### 8.3 Market analysis – student interest and labour market demand

Letters of support are provided in section 8.4.

Summer student survey 2024

All students who graduated with a degree in Economics from SFU at the June 2024 convocation were invited to participate by e-mail, leading to a sample of 22 students.

**Is there a topic or skill in Economics that you wish you could have learned more about in the Economics program? Select all that apply.**

	Response Count	% of total Respondents (n=22)
Quantitative skills	10	45.5%
Data processing	10	45.5%
Data analysis	10	45.5%
Presentation skills	9	40.9%
Writing skills	7	31.8%
Other (please specify)	2	9.1%
"Finance and Accounting"		
"Require more math courses"		
<b>Total Responses</b>	<b>48</b>	
Missing Cases	0	

Breakdown of students enrolled in science-oriented minors and double majors, as well as the Concentration in Economic Data Analysis, out of students in SFU Economics programs as of Spring 2025.

Economics Major or Honours		429 total
and		
	Actuarial Science Major	1
	Math Major	1
	Computing Science Major	3
	Statistics Minor	14
	Social Data Analytics Minor	13
	Mathematics Minor	4
	Computing Science Minor	1
	Concentration in Economic Data Analysis	61

Enrolment in technically-oriented elective classes in Economics.

	2023/24	2024/25
ECON 334 Data Visualization and Economic Analysis	120	114
ECON 335 Cause and Effect in Economic Data	75	59

#### 8.4 Consultation comments and letters of support

I have consulted with the following parties.

Dr. Rogayeh Tabrizi, CEO and Co-Founder, Theory+Practice, author of “Behavioral AI”, 2023 WLDA “AI Leader of the Year”, Director of AI in BC

Jordan Gutierrez, COO, Wishpond

Dr. Jeremy Kronick, Vice President – Economic Analysis and Strategy, CD Howe Institute

Prof. Eugene Fiume, Dean, Faculty of Applied Science, Simon Fraser University

Prof. Oliver Schulte, Director, School of Computing Science, Simon Fraser University

Dr. Justin Gray, Associate Chair – Undergraduate Learning, Department of Mathematics, Simon Fraser University

Prof. Barbara Sanders, Undergraduate Program Chair, Department of Statistics, Simon Fraser University

Prof. Jonathan Graves, Director of Undergraduate Studies – Curriculum and Students, Vancouver School of Economics, University of British Columbia

Prof. Elisabeth Gugl, Associate Chair, Department of Economics, University of Victoria

I also reached out the following people, who did not reply:

Prof. Ettore Damiano, Chair, Department of Economics, University of Toronto

Bryan Breguet, Chair, Department of Economics, Langara College

Dr. Gino Cateau, Senior Policy Director, Bank of Canada

Dear David,

I am writing to express my strong support for the proposed BSc in Economics at SFU.

As the founder and CEO of Theory+Practice, a technology company specializing in the intersection of behavioral economics and AI, I have seen firsthand how critical economic thinking is in driving meaningful business outcomes. While earning my PhD in Economics at SFU, I became deeply engaged with behavioral economics, game theory, and the study of social network behavior. This foundation ultimately led me to co-found Theory+Practice, where we help some of the world's largest corporations unlock millions in revenue and efficiencies by applying economic intuition to data-driven decision-making.

My own academic journey reinforces the importance of an interdisciplinary approach to economics. Transitioning from a master's in physics to economics required a fundamental shift in mindset. Many of the modeling tools felt familiar, but it took nearly three years to realize that economics requires a different way of thinking—one that goes beyond solving predefined problems to identifying the right questions in the first place. This ability to bridge abstract models with real-world applications has been invaluable in my career, yet I often find it lacking in data scientists trained solely in physics, computer science, or engineering.

The proposed BSc program is well-positioned to fill this gap. By equipping students with both economic reasoning and technical proficiency, it will produce graduates who can add significant value to interdisciplinary data science teams and contribute to BC's growing technology sector.

I am eager to support this initiative in any way I can—formally or informally—to help the program reach its full potential. I look forward to seeing it come to life.

Sincerely,

Rogayeh Tabrizi

Feb 15, 2025





Wishpond Technologies Ltd.  
422 Richards St, Suite 170  
Vancouver, BC  
V6B 2Z4

January 9, 2025

To Whom It May Concern,

I'm writing to support SFU's proposed BSc program in Economics.

I graduated from SFU in 2010 with a BA in Economics. My economics education provided an important basis for my subsequent success. understanding opportunity costs, the supply and demand sides of a market, and data analytics skills taught in econometrics - have been invaluable to my own success in the business world. With the rise of the web and now AI, having a strong understanding of economic fundamentals is more important than ever, and SFU's Economics program provides a great foundation.

The proposed BSc program is well designed to build on that foundation while providing an even stronger foundation in computing and data analytics. It will train the type of skills and thinking that lie behind our success at Wishpond and that are in short supply in BC's burgeoning tech sector. For these reasons, I strongly support the proposed BSc program in Economics.

Sincerely,

A handwritten signature in black ink, appearing to read "JK", is written over a horizontal line.

Jordan Gutierrez Keever  
Chief Operating Officer  
Wishpond Technologies Ltd.



INSTITUT C.D. HOWE INSTITUTE

**Chair**

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**Vice-Chairs**

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*O. Ont., M.S.M., CD*

*Aaron Regent, FCPA, FCA*

**Directors**

*Éric Bédard*

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*Heather Chalmers*

*Bert Clark*

*Brad W. Corson*

*Hélène Desmarais, C.M.*

*Laura Dottori-Attanasio*

*Rick Ekstein*

*Heather Evans*

*Louis Gagnon*

*Rosanne Hill Blaisdell*

*Brian K. Johnston, CPA, CA*

*Anna Kennedy*

*Cyrus Madon*

*Ronald P. Mathison*

*Marcia Moffat*

*Gilles G. Ouellette*

*William B.P. Robson*

*Geoff Smith*

*Stephen Smith*

*Jonathan Tétrault*

February 14, 2025

To Whom It May Concern:

I am writing in support of Simon Fraser University's BSc program in Economics.

I am Vice-President, Economic Analysis and Strategy at the C.D. Howe Institute, where I lead the Centre on Financial and Monetary Policy, producing research in these critical areas of the Canadian economy. The C.D. Howe Institute is Canada's most influential economic and public policy think tank distinguished by research that is nonpartisan, evidence-based, and subject to definitive expert review.

The Institute employs graduate-level (Masters and PhD) economists to lead our different research areas, from financial services and monetary – which I head – to trade, energy, health, human capital, fiscal and tax, and pensions, among others. Our research is both highly technical (theoretical and empirical) and relevant to the Canadian economy, and we look for graduates that have the requisite interest and knowledge. It is critical to our success that universities across this country graduate economists who have the necessary technical, computational, and data analytical skills to produce the kind of policy-relevant research that has real impact with Canadian regulators and policymakers. The Institute judges its success based on the impact we have on policy, and, ultimately, improvements in Canadian living standards. This success comes in large part from having the highest quality labour Canadian post-secondary institutions can produce, with a particular focus in economics. I am confident that the criteria laid out in the proposed BSc program in Economics will be an important step in that direction.

If you need more information, please do not hesitate to contact me.

All the best,

Jeremy M. Kronick, PhD  
Vice-President, Economic Analysis and Strategy  
Director of the Centre on Financial and Monetary Policy  
C.D. Howe Institute, Toronto, Ontario  
jkronick@cdhowe.org  
416-909-2637



Outlook

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**Re: BSc Economics**

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**From** David Freeman <david\_freeman@sfu.ca>  
**Date** Fri 2025-01-10 3:11 PM  
**To** Justin Gray <tgray@sfu.ca>  
**Cc** Mathematics Curriculum Chair <math\_ungrad@sfu.ca>

Thanks Justin!

I appreciate your reply. One quick comment. The formal proposal may include a list of courses from outside of economics that will be allowed to satisfy

Also, we might include language formally encouraging students to take MATH 242 if they're interested in grad school. "Take Real Analysis" has been standard advice for students interested in Economics PhDs for decades.

I'm pretty sure that none of this will conflict with anything in the Math department, but do let me know if there's anything I should be aware of.

Thanks,  
David

---

**From:** Justin Gray <tgray@sfu.ca>  
**Sent:** January 10, 2025 1:21 PM  
**To:** David Freeman <david\_freeman@sfu.ca>  
**Cc:** Mathematics Curriculum Chair <math\_ungrad@sfu.ca>  
**Subject:** Re: BSc Economics

Hi David,

We have no concerns, and we should be able to accommodate any additional enrollments that the proposed program might generate in our courses.

I am unsure how many students that leave a math program would be interested in doing a BSc in economics, but if there is enough overlap of lower division requirements between the programs then this would certainly make the transition easier.

Best regards,  
Justin Gray

---

**From:** David Freeman <david\_freeman@sfu.ca>  
**Sent:** January 8, 2025 6:55 PM

**To:** Justin Gray <tgray@sfu.ca>

**Subject:** BSc Economics

Hi Justin,

SFU Economics is proposing to add a BSc program (executive summary attached). It will require 4 LD MATH courses (3x calculus + linear algebra; our existing honours program requires that a student take these same MATH courses or take 1x calculus plus ECON 331). The BSc program also requires two computing courses plus two additional "science" courses from a list. The most obvious candidates for those two additional science courses will be in CMPT, MACM, MATH, and STAT.

I've heard informally that this is unlikely to be an issue for Math but I check with CS and so I'm sending this to check with you. We're also interested in attracting some of the students who start off in CS, Math, etc and attrit after 1-2 years — and I'd appreciate any insights you'd have on that and whether some of those students might be interested in Economics.

Please let me know if you have any feedback or concerns.

Thanks,  
David Freeman

-----  
Associate Professor and Undergraduate Chair  
Department of Economics  
Simon Fraser University



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**Re: Discuss the BSc Economics?**

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**From** John Edgar <john\_edgar@sfu.ca>  
**Date** Tue 2025-03-04 5:44 PM  
**To** David Freeman <david\_freeman@sfu.ca>

Hi David,

That's correct. Although, students with STAT 270 can of course submit a prerequisite waiver. I imagine if their GPA and Maths ability was good, that there is a reasonable chance one would be granted.

Cheers,  
John

---

John Edgar, Senior Lecturer, Computing Science  
Undergraduate Program Committee Chair  
Office: SYRE 5106

---

**From:** David Freeman <david\_freeman@sfu.ca>  
**Sent:** Tuesday, March 4, 2025 5:00 PM  
**To:** John Edgar <john\_edgar@sfu.ca>  
**Subject:** Re: Discuss the BSc Economics?

Thanks John! Just to clarify: the combination of STAT 270 + CMPT 210 will not be sufficient for entry to CMPT 310?

If so, we'll put in calendar language along the lines of "if you're interested in taking courses in AI, you should take CMPT 210 and STAT 271 in your first two years."

Thanks,  
David

---

**From:** John Edgar <john\_edgar@sfu.ca>  
**Sent:** March 4, 2025 4:22 PM  
**To:** David Freeman <david\_freeman@sfu.ca>  
**Subject:** Re: Discuss the BSc Economics?

Hi David,

No-one on my committee has expressed any concerns, and it sounds like an excellent program.

Just as a heads up we've recently proposed a change to CMPT 310 (Intro. To AI) that adds STAT 271 as a prerequisite. This is a relatively new Statistic for CS course that has CMPT 210 (Probability and Computing) as its prerequisite. Finally, CMPT 310 is also a prerequisite for CMPT 410 (Machine Learning). I only mention this because Machine Learning is a fairly popular course and the prerequisites are not fairly Maths heavy.

Cheers,  
John

---

John Edgar, Senior Lecturer, Computing Science  
Undergraduate Program Committee Chair  
Office: SYRE 5106

---

**From:** David Freeman <david\_freeman@sfu.ca>  
**Sent:** Monday, February 24, 2025 6:01 PM  
**To:** John Edgar <john\_edgar@sfu.ca>  
**Subject:** Re: Discuss the BSc Economics?

Thanks John, will do. Consider them struck.

From the perspective of CMPT enrolment, the bigger issue will be more Econ *Majors* will be ready to take your UD courses and may do so (we graduate ~400 Majors and 5-10 Honours students in a typical recent year). We only have one ECON Major CMPT Minor combo right now. But it's a great combo so I hope the BSc program pushes that number up.

I didn't make a list of the UD electives that will count for Honours until you asked — and can add/subtract as needed. Honours currently has low enrolment. But here's a quick list I came up with based on the pages for the MATH, CMPT, and STAT minors.

CMPT 307  
CMPT 310  
CMPT 353  
CMPT 354  
CMPT 410  
CMPT 419  
CMPT 420  
CMPT 454

MATH 308  
MATH 309  
MATH 320  
MATH 345  
MATH 348

Most 400-level

MACM 316

STAT 360

STAT 403

STAT 445

STAT 452

STAT 475

STAT 485

In practice, I expect to approve basically any course in STAT/MATH/CMPT/MACM designed for majors or minors with the exception of STAT 302 if a student asks.

Thanks for your reply!

David

---

**From:** John Edgar <john\_edgar@sfu.ca>  
**Sent:** February 24, 2025 4:27 PM  
**To:** David Freeman <david\_freeman@sfu.ca>  
**Subject:** Re: Discuss the BSc Economics?

Hi David,

One quick observation. We no longer offer CMPT 102 (p. 5), 128 or 129 (page 6), so I'd suggest removing them from the document.

Do you have the list of UD electives?

Cheers,  
John

---

John Edgar, Senior Lecturer, Computing Science  
Undergraduate Program Committee Chair  
Office: SYRE 5106

---

**From:** John Edgar <john\_edgar@sfu.ca>  
**Sent:** Sunday, February 23, 2025 6:39 PM  
**To:** David Freeman <david\_freeman@sfu.ca>  
**Subject:** Re: Discuss the BSc Economics?

Hi David,

I'll consult with my committee and get back to you before the 7th.

Cheers,  
John

---

John Edgar, Senior Lecturer, Computing Science  
Undergraduate Program Committee Chair  
Office: SYRE 5106

---

**From:** David Freeman <david\_freeman@sfu.ca>  
**Sent:** Sunday, February 23, 2025 4:53 PM  
**To:** John Edgar <john\_edgar@sfu.ca>  
**Subject:** Re: Discuss the BSc Economics?

Hi John,

I have to get the document in on March 13, for the FASSUCC meeting. I don't think we need a formal endorsement, but if you have issues or suggestions it would be easier to deal with before we submit.

I've consulted with Eugene and spoken to Oliver and the FPP will reflect their feedback.

David

---

**From:** John Edgar <john\_edgar@sfu.ca>  
**Sent:** February 23, 2025 3:23 PM  
**To:** David Freeman <david\_freeman@sfu.ca>  
**Subject:** Re: Discuss the BSc Economics?

Hi David,

My apologies - it has been a very busy semester and I'm afraid I forgot about this. We have a UCC meeting on the 13<sup>th</sup> of March. If I get back to you by the end of the day on the 14<sup>th</sup> will that be too late?

Cheers,  
John

---

John Edgar, Senior Lecturer, Computing Science  
Undergraduate Program Committee Chair  
Office: SYRE 5106

---

**From:** David Freeman <david\_freeman@sfu.ca>  
**Sent:** Saturday, February 22, 2025 6:32 PM  
**To:** John Edgar <john\_edgar@sfu.ca>  
**Subject:** Re: Discuss the BSc Economics?

Hi John,

I'm just following up — based on your meeting, do you have a formal reply?

I chatted with Oliver in January and forgot to follow up with you just after.

Thanks,  
David

---

**From:** John Edgar <john\_edgar@sfu.ca>  
**Sent:** January 8, 2025 6:03 PM  
**To:** David Freeman <david\_freeman@sfu.ca>; Oliver Schulte <oschulte@cs.sfu.ca>  
**Cc:** Linda Humeniuk, Confidential Assistant to the Director <cs\_directors\_secretary@sfu.ca>  
**Subject:** Re: Discuss the BSc Economics?

Hi David,

Just confirming that our Undergraduate Program Committee will discuss the proposal. We are having a meeting tomorrow, but if we don't have time to discuss it then, we'll do so by email.

Cheers,  
John

---

John Edgar, Senior Lecturer, Computing Science  
Undergraduate Program Committee Chair  
Office: SYRE 5106

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**From:** David Freeman <david\_freeman@sfu.ca>  
**Sent:** Wednesday, January 8, 2025 11:28 AM  
**To:** Oliver Schulte <oschulte@cs.sfu.ca>  
**Cc:** John Edgar <john\_edgar@sfu.ca>; Linda Humeniuk, Confidential Assistant to the Director <cs\_directors\_secretary@sfu.ca>  
**Subject:** Re: Discuss the BSc Economics?

Thanks Oliver! As for timeline, we have to go through many steps in the approval process that will take months. I think a reply by the end of the month should be

sufficient.

Thanks John for agreeing to take a look. I've attached the NOI that was approved at FASS UCC (with one added line based on correspondence with Eugene).

I should note that I've worked through the requirements, and it should be possible to complete a CS minor alongside the BSc Honours with only 120 credits. It should also be possible to Double Major in CS and Econ under the BSc program, but we should probably have a separate conversation about introducing a joint major after this is approved if you're willing.

If enrolment is the main sticking point, I can work with the Economics Advising team to pull current numbers, on transfer students, the Data Concentration, and so on.

Thanks,  
David

---

**From:** Oliver Schulte <oschulte@cs.sfu.ca>  
**Sent:** January 8, 2025 9:19 AM  
**To:** David Freeman <david\_freeman@sfu.ca>  
**Cc:** John Edgar <john\_edgar@sfu.ca>; Linda Humeniuk, Confidential Assistant to the Director <cs\_directors\_secretary@sfu.ca>  
**Subject:** Re: Discuss the BSc Economics?

Hi David,

thank you for clarifying.

1. About the formal endorsement, our process is for our undergraduate committee to review program proposals from other departments. [@John Edgar](#) : will you ask the committee to review please. [@David Freeman](#) : do you have a timeline/deadline for when you need a reply?
2. Sure talking about coordinating programs sounds good. I would say let's start by setting up a meeting with you and I. Once we have a time, I will invite our undergrad chair and Associate Director as well as optional attendees. [@Linda Humeniuk, Confidential Assistant to the Director](#) : can you please set up a meeting with David after Jan 20? I know there may not be a free slot for a while I believe it would be early enough in February if necessary.

Regards,

Oliver

On Tue, Jan 7, 2025 at 5:12 PM David Freeman <[david\\_freeman@sfu.ca](mailto:david_freeman@sfu.ca)> wrote:

Hi Oliver,

Thank you for your reply.

A formal endorsement would be much appreciated.

An assurance of capacity in 100-level CMPT courses might be useful. I'm not sure how much extra capacity we'll actually need though.

We would like to eventually attract 100 students/year (this is the size of our Data Concentration within the Economics major). Currently, about 55% of SFU Economics students transfer from outside SFU. We aim to attract some of the students who start in CS, Engineering, Math, etc and decide to switch out (*and I'd appreciate any insights you have on this*). Thus I expect the marginal increase in demand for CMPT 120/125 will be small, though it's hard to estimate.

Because of the program's design and intentions, I hope BSc students will be interested in taking CMPT electives (or even a CMPT minor) to complement their Economics studies. However, the program doesn't require any other CMPT courses.

I'm keen to chat informally when you're back about how we might position Econ as an alternative major for students who attrit from FAppSci and FSci (or any other feedback you have). I'm also open to developing a double major BSc in CMPT+ECON, but that isn't part of the current proposal.

Thanks again for your help, enjoy your travels,  
David

---

**From:** Oliver Schulte <[oschulte@cs.sfu.ca](mailto:oschulte@cs.sfu.ca)>

**Sent:** January 7, 2025 10:37 AM

**To:** Eugene Fiume <[eugene\\_fiume@sfu.ca](mailto:eugene_fiume@sfu.ca)>

**Cc:** David Freeman <[david\\_freeman@sfu.ca](mailto:david_freeman@sfu.ca)>; John Edgar <[john\\_edgar@sfu.ca](mailto:john_edgar@sfu.ca)>

**Subject:** Re: Discuss the BSc Economics?

Hi Eugene and David,

thank you for looping me in. I agree with Eugene that program looks exciting. As a new director somewhat unfamiliar with the SFU processes, perhaps I can ask what you need from us in CS.

1. Are you looking for a formal endorsement to satisfy SFU consultation requirements (e.g., from Senate)?
2. Or for reassurance that there will be space in CMPT 120 and CMPT 125 for the Bsc economic students to take the course when they need it? Could be an issue given our capacity challenges.
3. Or just any free-form general feedback? I agree with Eugene's points about the program design, not too much to add.

I'm happy to chat, although I'm going out of town this Friday so it would be after next week.

Regards,

Oliver

On Mon, Jan 6, 2025 at 8:38 AM Eugene Fiume <[eugene\\_fiume@sfu.ca](mailto:eugene_fiume@sfu.ca)> wrote:

Hi Oliver,

I was corresponding (see thread) with David Freeman this weekend over their proposed B.Sc. in Economics, which would have a significant mathematical/computational sciences component. I indicated I would forward the attached programme summary to you for possible further discussion both within CS and with David.

David, I will note that our various B.Sc. and [B.A.Sc.](#) four-year programmes often require well over 120 credits (particularly in Engineering). That may be one way to approach the 60 credit issue for FASS.

Eugene

On 2025-01-05 10:22 p.m., David Freeman wrote:

Hi Eugene,

Thank you for your reply.

Please forward to the Director of CS if you'd like.

Your point is well taken — a CS minor/electives would be a natural complement to the program, especially for someone with interest in big data computing tools.

According to the calendar, the key missing prerequisite courses for CS electives are CMPT 225 and MACM 101. In the proposed calendar entry, I can add language like "Students interested in pursuing upper-year courses in Computing Science should complete MACM 101 and CMPT 225 in the first two years of the program".

One topic I'm in discussion about is that FASS requires 60 credits in FASS to complete a BA. I've asked to get that waived for the BSc to make it easier for a student to take complementary electives in Math, CS, etc.

Best,  
David

---

**From:** Eugene Fiume <[eugene\\_fiume@sfu.ca](mailto:eugene_fiume@sfu.ca)>

**Sent:** January 5, 2025 5:39 PM

**To:** David Freeman <[david\\_freeman@sfu.ca](mailto:david_freeman@sfu.ca)>

**Cc:** Rogayeh Tabrizi <[rogayeh@tap.work](mailto:rogayeh@tap.work)>

**Subject:** Re: Discuss the BSc Economics?

Hi David,

thank you for getting in touch. This looks to be a challenging and exciting programme. I like the focus on data. The introductory CS courses are certainly important, but I suggest there be clear direction for students who might want to add fourth-year machine learning, databases, or data-mining courses in CS, as the prerequisites will require careful planning a couple of years ahead of time.

Would you mind it if I were to send the summary of your programme to our Director of the School of CS? He might have some further recommendations.

Eugene

On 2025-01-03 10:23 a.m., David Freeman wrote:

Dear Eugene,

Rogayeh Tabrizi suggested I get in touch with you as we're pursuing programs that have similar flavours.

SFU Economics is proposing to offer a new BSc in Economics program. The goal of the program is to train students to succeed in the data-intensive economics careers. The program is modelled after our BA program, and requires additional courses in computing science, mathematics, econometrics, and computational economics. The "BSc" designation will help signal the technical and scientific content of the degree to employers. I've attached an executive summary.

Please let me know if you're available to chat or if you want to comment by e-mail. I can provide our NOI if you want more details.

Thank you,  
David Freeman

-----  
Associate Professor and Undergraduate Chair  
Department of Economics  
Simon Fraser University



Outlook

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**Re: BSc Economics**

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**From** Barbara Sanders <bsanders@sfu.ca>  
**Date** Mon 2025-02-24 11:01 PM  
**To** David Freeman <david\_freeman@sfu.ca>  
**Cc** Economics Dept Chair <econ\_chair@sfu.ca>; Chair, Statistics & Actuarial Science <stchair@sfu.ca>

Thank you, David. This all makes sense. I appreciate you making the changes, and I have nothing further to add.

Please keep me updated on the progress of the approvals.

I'll circle back in the fall to chat about a possible joint major/honours.

Cheers,  
Barbara

**Barbara Sanders, FSA, FCIA**  
Associate Professor | Department of Statistics and Actuarial Science  
Simon Fraser University | SSC-K10554  
8888 University Dr., Burnaby, B.C. V5A 1S6  
M: 778.689.7564 | [Website](#)  
signature\_1218014475

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**From:** David Freeman <david\_freeman@sfu.ca>  
**Date:** Monday, February 24, 2025 at 10:50 PM  
**To:** Barbara Sanders <bsanders@sfu.ca>  
**Cc:** Economics Dept Chair <econ\_chair@sfu.ca>  
**Subject:** Re: BSc Economics

Hi Barbara,

The NOI doesn't have the list but here's the proposed calendar entries.

I've revised the calendar language to put STAT 260 as an allowable alternative to CMPT 125 (i.e. as a second programming course) and taken out the encouragement to take STAT 240.

The program is fundamentally an Economics, program, but we want its lower division structure to make it easy for a student to add on a minor in

Computer Science, Mathematics, or Statistics after the first year (or pursue courses from these departments as electives without a minor). If we're allowed to do direct entry (which is not the norm in FASS but we are trying to setup), we expect most direct entry students will take STAT 260 due to the calendar guidance which advisors would push. However, we want to keep the lower division requirements reasonable for students who transfer from within or outside of SFU (e.g. who add Economics as a second major to a BSc in Math, or transfer from Engineering).

I haven't settled on a list of approved non-ECON courses for Honours but if I need this for the FPP I'd put STAT 360, 403, 445, 452, 475, 485 (we can adjust that as needed). I'd also have on that list: CMPT 307, 310, 353, 354, 410, 419, 420, 454; MATH 308, 309, 320, 345, 348, most 400-level; MACM 316 (unless I get feedback from CMPT otherwise). Our Honours program is small, (3 people this year, but normally 5-10). We'd give credit for UD STAT courses like 330 if asked, but the prerequisite structure means it doesn't make sense to have them on that list for advising reasons.

Currently we have 14 Economics Majors students taking a Statistics Minor — without the BSc in place. The BSc program as proposed will make it easier for students to take Statistics electives, so the causal effect of introducing this program on STAT course enrolment should be positive.

Thanks,  
David

cc to Chair as we discussed what would be an appropriate program structure.

---

**From:** Barbara Sanders <bsanders@sfu.ca>  
**Sent:** February 18, 2025 1:06 PM  
**To:** David Freeman <david\_freeman@sfu.ca>  
**Subject:** Re: BSc Economics

Dear David,

If the goal is to get students ready for relevant upper-division STAT courses that would also fulfill the STAT minor, the focus ought to be on STAT 260. That course, together with ECON 333, would open up all of the recommended courses in the minor (STAT 342, 360, 403, 335, 452, 475 and 485). STAT 240 can be a nice add-on, but it is not required for those upper division STAT courses.

Would you consider adding just STAT 260 as a lower division requirement? It is offered regularly and is very relevant for the entire group of students the BSc is trying to appeal to.

Also, you refer to a list of LD electives below ("At least six further lower-division credits from the following list") but I don't see them listed in the file you attached. Would you be able to share the detailed program requirements, rather than just the skeleton you sent me?

Many thanks,

**Barbara Sanders, FSA, FCIA**

Associate Professor | Department of Statistics and Actuarial Science

Simon Fraser University | SSC-K10554

8888 University Dr., Burnaby, B.C. V5A 1S6

M: 778.689.7564 | [Website](#)

signature\_391899536

---

**From:** David Freeman <david\_freeman@sfu.ca>

**Date:** Wednesday, February 12, 2025 at 3:04 PM

**To:** Barbara Sanders <bsanders@sfu.ca>

**Subject:** Re: BSc Economics

Hi Barbara,

Thank you for meeting with me.

In the proposed official calendar language for the BSc, I will add

"Students interested in pursuing upper division electives in Statistics are advised to take STAT 240 and STAT 260 in the first two years of the program."

Those courses are listed under the "At least six further lower-division credits from the following list".

We want BSc Economics students to take UD courses in STAT, CMPT, and MATH, and in particular we want to set them up to be able to pursue a minor in any of those subjects.

Please let me know if you have any further questions, comments, or concerns.

If you're interested, a possible next move might be to establish a joint major and/or joint honours. I think it will be easier to do this once the BSc is approved, but perhaps we could have that discussion in the fall.

Thanks,

David

---

**From:** Barbara Sanders <bsanders@sfu.ca>  
**Sent:** January 10, 2025 5:36 PM  
**To:** David Freeman <david\_freeman@sfu.ca>  
**Subject:** Re: BSc Economics

Hi David,

I saw the program proposal you put forward to SCUS, so I appreciate you reaching out.

My department takes a collaborative approach to curriculum development, so an in-person meeting seems like a good starting point for discussing your proposal. Through that meeting, I hope to better understand your unit's goals for this program, so I can make some constructive suggestions.

I will be on campus Tuesday, Thursday and Friday next week. Would any of these days work for you for an in-person meeting? You can see my availability in Outlook/Teams.

Thanks,

Barbara

**Barbara Sanders, FSA, FCIA**

Associate Professor | Department of Statistics and Actuarial Science

Simon Fraser University | SSC-K10554

8888 University Dr., Burnaby, B.C. V5A 1S6

M: 778.689.7564 | [Website](#)



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**From:** David Freeman <david\_freeman@sfu.ca>

**Date:** Friday, January 10, 2025 at 12:37 PM

**To:** Barbara Sanders <bsanders@sfu.ca>

**Subject:** BSc Economics

Hi Barbara,

SFU Economics is proposing to add a BSc program (executive summary attached). It doesn't formally require a STAT course (though STAT 270 would substitute for ECON 233).

STAT courses are currently electives in the "Economic Data Analysis" which is a concentration within the major, and some would be natural fits to satisfy the LD Science electives (e.g. perhaps STAT 240 and 260).

Please let me know if you have comments or concerns; I'm happy to discuss in person or over Zoom if you'd prefer.

Thanks,

David Freeman

---

Associate Professor and Undergraduate Chair

Department of Economics

Simon Fraser University



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**RE: SFU BSc in Economics Proposal**

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**From** Graves, Jonathan <jlgraves@mail.ubc.ca>

**Date** Fri 2025-01-10 1:19 PM

**To** David Freeman <david\_freeman@sfu.ca>

Hi David,

Looks accurate.

See you soon!

Best,

Jonathan

---

**From:** David Freeman <david\_freeman@sfu.ca>

**Sent:** January 10, 2025 12:31 PM

**To:** Graves, Jonathan <jlgraves@mail.ubc.ca>

**Subject:** Re: SFU BSc in Economics Proposal

[CAUTION: Non-UBC Email]

Hi Jonathan,

It was great meeting today. For our records, here's the key points we discussed (please reply to confirm or correct my record).

-UBC Economics has no objection to the program, generally supportive.

-Other schools like U Victoria have well-established BSc programs.

-The updated form of our NOI is attached.

-Q1: Use of linear algebra in econometrics? Answer: ECON 435 has some matrix algebra as a prerequisite and typically uses it, but ECON 333 doesn't. If enrolment hits projections and we have sufficient resources, we'd like to create a separate BSc stream of ECON 333 that has linear algebra as a prerequisite.

-Q2: Are the BA and BSc different methodologically? Answer: yes and no. Same core courses (which may eventually be streamed if resources allow). BSc students take methods courses like Computational Economics and courses in Econometrics that will have a lot of applications. A BSc student taking the minimum number of ECON courses would take fewer applied field courses in Economics but would get exposure to applications with a more hands-on and quantitative/data-oriented approach through these methods courses.

Points we discussed that are not directly related to the BSc:

-UBC's "Intermediate courses in year 3" structure is partly for historical reasons and partly due to BCCAT; UBC will review its intro and intermediate courses.

-CEA hasn't had the level of success at outreach as the AEA. Let's meet in three weeks to brainstorm how to take some first steps.

Please let me know if this is a good summary or needs correction. I look forward to seeing you in 3 weeks!

David

---

**From:** Graves, Jonathan <[jlgraves@mail.ubc.ca](mailto:jlgraves@mail.ubc.ca)>

**Sent:** January 6, 2025 4:45 PM

**To:** David Freeman <[david\\_freeman@sfu.ca](mailto:david_freeman@sfu.ca)>

**Subject:** RE: SFU BSc in Economics Proposal

Sure does. Sent you a Zoom invite.

Best,

Jonathan

---

**From:** David Freeman <[david\\_freeman@sfu.ca](mailto:david_freeman@sfu.ca)>

**Sent:** January 6, 2025 4:44 PM

**To:** Graves, Jonathan <[jlgraves@mail.ubc.ca](mailto:jlgraves@mail.ubc.ca)>

**Subject:** Re: SFU BSc in Economics Proposal

[CAUTION: Non-UBC  
Email]

Hi Jonathan,

Does Friday in the morning work? Maybe 10am?

Thanks,

David

---

**From:** Graves, Jonathan <[jlgraves@mail.ubc.ca](mailto:jlgraves@mail.ubc.ca)>

**Sent:** January 6, 2025 4:31 PM

**To:** David Freeman <[david\\_freeman@sfu.ca](mailto:david_freeman@sfu.ca)>

**Subject:** RE: SFU BSc in Economics Proposal

Hi David,

We've had a chance to review it, so perhaps we should meet. Want to do Zoom? I'm flexible on Friday right now.

Best,

Jonathan

---

**From:** David Freeman <[david\\_freeman@sfu.ca](mailto:david_freeman@sfu.ca)>

**Sent:** January 1, 2025 9:52 PM

**To:** Graves, Jonathan <[jlgraves@mail.ubc.ca](mailto:jlgraves@mail.ubc.ca)>

**Subject:** Re: SFU BSc in Economics Proposal

[CAUTION: Non-UBC  
Email]

Thanks Jonathan! Sounds great. I hope all is well on your end.

Thanks,

David

---

**From:** Graves, Jonathan <[jlgraves@mail.ubc.ca](mailto:jlgraves@mail.ubc.ca)>  
**Sent:** January 1, 2025 12:18 PM  
**To:** David Freeman <[david\\_freeman@sfu.ca](mailto:david_freeman@sfu.ca)>  
**Cc:** Drelichman, Mauricio <[Mauricio.Drelichman@ubc.ca](mailto:Mauricio.Drelichman@ubc.ca)>  
**Subject:** RE: SFU BSc in Economics Proposal

Hi David,

I also echo it's great to hear from you! I looked over this briefly, and it looks like an interesting proposal. I'd be happy to review this and any other things you have in more detail next week, and then maybe we can have a chat?

Best,

Jonathan

---

**From:** Drelichman, Mauricio <[Mauricio.Drelichman@ubc.ca](mailto:Mauricio.Drelichman@ubc.ca)>  
**Sent:** December 27, 2024 11:02 AM  
**To:** David Freeman <[david\\_freeman@sfu.ca](mailto:david_freeman@sfu.ca)>  
**Cc:** Graves, Jonathan <[jlgraves@mail.ubc.ca](mailto:jlgraves@mail.ubc.ca)>  
**Subject:** Re: SFU BSc in Economics Proposal

Hello David,

Great to hear from you! I am cc'ing Jonathan Graves, who oversees curriculum affairs. He will get back to you with any feedback.

All the best,

Mauricio

On Dec 27, 2024, at 10:36, David Freeman <[david\\_freeman@sfu.ca](mailto:david_freeman@sfu.ca)> wrote:

[**CAUTION:** Non-UBC  
Email]

Dear Mauricio,

I hope all is well on your end. I'm now the Undergraduate Chair of Economics at SFU and I saw that you've taken up a similar role at the VSE.

SFU is proposing to offer a new BSc in Economics program.

The goal of the program is to train students to succeed in the data-intensive economics careers, including graduate studies and research. The program is modelled after our BA program, and requires additional courses in computing science, mathematics, econometrics, and computational economics. The "BSc" designation will help signal the technical and scientific content of the degree to employers. I've attached an executive summary (and can provide a full "Notice of Intent" if you're interested).

I am reaching out as part of our consultation process. Please let me know by e-mail if you have any questions or concerns about our proposal.

I'm happy to chat over the phone/Zoom about the program or about any feedback you'd have on how we should be innovating in our undergraduate education to meet the needs of British Columbia and Canada.

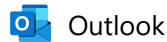
Thank you, and all my best wishes,

David Freeman

-----  
Associate Professor and Undergraduate Chair

Department of Economics

Simon Fraser University



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**Re: SFU BSc in Economics Proposal**

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**From** Associate Chair, Economics <econassoc@uvic.ca>

**Date** Fri 2024-12-27 10:26 PM

**To** David Freeman <david\_freeman@sfu.ca>

Hi David,  
Please consider my reply the official response from our department to your consultation process.

I think the program is well structured and will serve its stated purpose.

Best,  
Elisabeth

Elisabeth Gugl

Associate Chair, Department of Economics

University of Victoria

*We acknowledge and respect the Ləkʷəŋən (Songhees and Esquimalt) Peoples on whose territory the university stands, and the Ləkʷəŋən and WSÁNEĆ Peoples whose historical relationships with the land continue to this day.*

---

**From:** David Freeman <david\_freeman@sfu.ca>

**Date:** Friday, December 27, 2024 at 10:50 AM

**To:** Elisabeth Gugl <egugl@uvic.ca>

**Subject:** SFU BSc in Economics Proposal

You don't often get email from david\_freeman@sfu.ca. [Learn why this is important](#)

Dear Elisabeth,

I hope all is well on your end. I'm now the Undergraduate Chair of Economics at SFU and I saw that you're now the Associate Chair at Victoria.

SFU is proposing to offer a new BSc in Economics program.

The goal of the program is to train students to succeed in the data-intensive economics careers, including graduate studies and research. The program is modelled after our BA program, and requires additional courses in computing science, mathematics, econometrics, and computational economics. The "BSc" designation will help signal the technical and scientific content of the degree to employers. I've attached an executive summary (and can provide a full "Notice of Intent" if you're interested).

I am reaching out as part of our consultation process. Please let me know by e-mail if you have any questions or concerns about our proposal.

I'm happy to chat over the phone/Zoom about the program or about any feedback you'd have on how we should be innovating in our undergraduate education to meet the needs of British Columbia and Canada.

Thank you, and all my best wishes,  
David Freeman

-----  
Associate Professor and Undergraduate Chair  
Department of Economics  
Simon Fraser University



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**Re: Support for new Bachelor of Science in Economics program at SFU**

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**From** David Freeman <david\_freeman@sfu.ca>

**Date** Thu 2025-02-06 11:35 PM

**To** Luba Petersen <luba\_petersen@sfu.ca>; gcateau@bank-banque-canada.ca <gcateau@bank-banque-canada.ca>

 2 attachments (393 KB)

NOIDraft\_FASSUCC.pdf; BScexecSummary-1.pdf;

Dear Gino,

My colleague Luba Petersen gave me your contact.

SFU Economics is proposing to offer a Bachelor of Science in Economics. It will be a more technically oriented alternative to our BA in Economics program. The BSc will require courses in mathematics, computer science, computational economics, and econometrics beyond the requirements of the BA degree, while being fundamentally an Economics program.

Would you be willing to write a formal letter of support for the program?

I've attached an executive summary of the program and the detailed Notice of Intent.

Thank you for your consideration, and please don't hesitate to contact me if I can provide further information.

David Freeman

-----  
Associate Professor and Undergraduate Chair  
Department of Economics  
Simon Fraser University  
[www.sfu.ca/~dfa19](http://www.sfu.ca/~dfa19)

---

**From:** Luba Petersen <luba\_petersen@sfu.ca>

**Sent:** February 6, 2025 4:29 PM

**To:** David Freeman <david\_freeman@sfu.ca>

**Subject:** Fw: Support for new Bachelor of Science in Economics program at SFU

Hi Dave,

You can reach out directly to Gino Cateau (Senior Policy Director at the Bank of Canada), who can likely provide a letter of support. I didn't realize they wrote me in December telling me to get in touch.

Gino's email is:  
gcateau@bank-banque-canada.ca

They are expecting an email from you.

Best,  
Luba

---

**From:** Luba Petersen <luba\_petersen@sfu.ca>  
**Sent:** Thursday, February 6, 2025 4:27 PM  
**To:** Jing Yang <jyang@bank-banque-canada.ca>  
**Cc:** Gino Cateau <gcateau@bank-banque-canada.ca>  
**Subject:** Re: Support for new Bachelor of Science in Economics program at SFU

Hi Jing and Gino,

I was just looking back in my emails and realize that I missed your reply. My apologies for the very slow response.

Gino, it would be wonderful to get the Bank's support for this initiative. I will have David reach out to you with more details.

Thank you again!  
Luba

---

**From:** Jing Yang <jyang@bank-banque-canada.ca>  
**Sent:** Friday, December 20, 2024 11:18 AM  
**To:** Luba Petersen <luba\_petersen@sfu.ca>  
**Cc:** Gino Cateau <gcateau@bank-banque-canada.ca>  
**Subject:** RE: Support for new Bachelor of Science in Economics program at SFU

Category/Catégorie: Non-Sensitive/Non-Délicat

Hi Luba:

This is an excellent idea for a program. I can testify that when we hire RAs at the Bank, I hear more and more demand for technical students with programming skills. This bolts well with the program that you have in mind. I copy Gino, my deputy, you can ask David to reach out to us.

Let's reconnect in the new year!

Jing

**Jing Yang**

Managing Director  
Economic and Financial Research  
Bank of Canada

Cell: (613)791 8738

Email: [jyang@bankofcanada.ca](mailto:jyang@bankofcanada.ca)

Website: <http://www.bankofcanada.ca/profile/jing-yang/>

---

**From:** Luba Petersen <luba\_petersen@sfu.ca>

**Sent:** Friday, December 20, 2024 1:11 PM

**To:** Jing Yang <jyang@bank-banque-canada.ca>

**Subject:** {External} Support for new Bachelor of Science in Economics program at SFU

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Hi Jing,

I hope all is well.

Our undergraduate program committee has decided to establish a Bachelor of Science (B.S.) program in Economics with the goal of attracting more science-oriented students to the major. This new program will emphasize the computational, mathematical, and statistical coursework that we currently offer.

We have identified significant demand within the Faculty of Science for an Economics concentration. However, many students are hesitant to pursue Economics due to its Bachelor of Arts (B.A.) designation. Additionally, there is a growing number of B.A. students interested in advanced computational and data science training who lack the necessary science prerequisites to complete a B.S. degree. Our existing data science minor within the B.A. program does not convey sufficient rigor expected by potential industry employers. Meanwhile, the B.A. program remains well-suited for the majority of our undergraduate students, and we aim to maintain its accessibility without making it overly technical.

To move forward, we need to apply to the British Columbia Ministry of Education to create the new Bachelor of Science in Economics program. As part

of this process, our department is seeking letters of support from professionals and industry partners to demonstrate the value and necessity of this initiative.

As the Managing Director of EFR, your support would be incredibly valuable to us. I am wondering if you may be able to provide a letter of support that speaks to the need for more technical undergraduate training in Economics? If so, I will have our undergraduate chair, David Freeman, reach out to you with more information about the program. Otherwise, if there is anyone else in the Bank who you think might be able to write such a letter, I will be happy to reach out to them.

Thanks for considering!  
Wishing you and your family a very happy holidays!

Best,  
Luba

=====  
La version française suit le texte anglais.

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**8.5 Resources**

N/A.

**8.6 Financial plan (only if additional resources required)**

We are not requesting additional resources.

**8.7 Abbreviated curriculum vitae for faculty**

ECON courses will be taught by faculty from the Department of Economics.

Victor H. Aguiar

## 1. Personal Information

Department of Economics  
Social Science Centre  
Simon Fraser University  
Burnaby, BC, Canada  
Phone: +12269775561  
Email: [vhaguial@sfu.ca](mailto:vhaguial@sfu.ca)  
Website: <https://sites.google.com/site/vhaguilar/>

### *Current Position*

Associate Professor  
Department of Economics,  
Simon Fraser University

### *Major Fields of Concentration*

Microeconomic Theory, Decision Theory, Behavioral Economics, Consumer Theory, Revealed Preferences, Non-Parametric Econometrics, Computational Economics

### *Education*

Degree	Field	Institution	Year
Ph.D.	Economics	Brown University	2017
M.A.	Development Economics	Latin America University of Social Sciences (FLACSO Ecuador)	2012
M.A.	Public Administration and International Trade	Université Pierre Mendès France	2011
B.Sc.	Economics (Valedictorian)	Catholic University of Ecuador	2010

### ***Academic and Professional Experience***

January 2024 –	Associate Professor of Economics (with tenure), Department of Economics, Simon Fraser University
July 2021 – December 2023	Associate Professor of Economics (with tenure), Department of Economics, University of Western Ontario
July 2022 – June 2023	(On Sabbatical Leave at the University of San Francisco of Quito)
July 2016 – June 2021	Assistant Professor of Economics, Department of Economics, University of Western Ontario
Summer 2015	World Bank, Temporary Consultant

### ***Academic Honors and Awards***

Winter 2021	The Christopher J. Grimes Faculty Fellowships in Microeconomic Theory, 2021-2026.
Winter 2017	Graduate Economics Professor of the Year, 2017, University of Western Ontario
Fall 2015	Merit Dissertation Fellowship, George Borts Dissertation Prize, Economics Department, Brown University.
Summer 2015	Best Third Year Paper Prize, Economics Department, Brown University
Spring 2015	Research Fellowship, Economics Department, Brown University (working under Geoffroy de Clippel)
Fall 2013	Honors in Field Examinations Bounded Rational Consumer Theory and Non-Parametric Econometrics, Economics Department, Brown University
2012-2014	Graduate School Fellowship, Economics Department, Brown University

## **2. Research and Scholarly Activities**

### ***Publications***

#### **(i) Articles in Refereed Journals**

Aguiar, Victor H. and Nail Kashaev. "Identification and Estimation of Discrete Choice Models with Unobserved Choice Sets," (formerly circulated as Discrete Choice and Welfare Analysis with Unobserved Choice Sets") January 2024 *Journal of Business and Economic Statistics*.

Aguiar, Victor H. and Serrano Roberto. "Slutsky Matrix Symmetry: A New Behavioral

Condition”. *Journal of Political Economics: Microeconomics*. 2024 Forthcoming.

Aguiar, Victor H., Maria Jose Boccardi, Nail Kashaev, and Jeongbin Kim. 2023. “Random Utility and Limited Consideration” (supersedes “Does Random Consideration Explain Behavior Choice when Choice is Hard? Evidence from a Large-Scale Experiment”) *Quantitative Economics* 14.: 71-116.

Aguiar, Victor H., Roy Allen, and Nail Kashaev. 2022. “Prices, Profits, Proxies, and Production,” *Journal of Econometrics* (in press).

Aguiar, Victor H. and Nail Kashaev. 2022. “A Random Utility and Attention Model,” *Journal of Economic Theory*, 204, 105487.

Aguiar, Victor H. and Nail Kashaev. 2021. “Stochastic Revealed Preferences with Measurement Error,” *The Review of Economic Studies*, 88(4), pp. 2042-2093.

Aguiar, Victor H. and Roberto Serrano. 2021. “Cardinal Revealed Preference: Disentangling Transitivity and Consistent Binary Choice,” *Journal of Mathematical Economics*, 94, Article 102462.

Aguiar, Victor H. and Mert Kimya. 2019. “Adaptive Stochastic Search,” *Journal of Mathematical Economics*, 81, pp. 74-83.

Aguiar, Victor H., Roland Pongou, and Jean-Baptiste Tondji. 2018. “A Non-Parametric Approach to Testing the Axioms of the Shapley Value with Limited Data,” *Games and Economic Behavior*, 111, pp. 41-63.

Aguiar, Victor H. and Roberto Serrano. 2017. “Slutsky Matrix Norms: The Size, Classification, and Comparative Statics of Bounded Rationality,” *Journal of Economic Theory*, 172, pp. 163-201.

Aguiar, Victor H., Maria Jose Boccardi, and Mark Dean. 2016. “Satisficing and Stochastic Choice,” *Journal of Economic Theory*, 166, pp. 445–482.

### **Smaller Papers**

Aguiar, Victor H, and Nail Kashaev. 2022. “Random Rank-Dependent Expected Utility. *Games*, 13(1), 13.

Aguiar, Victor H. and Roberto Serrano. 2018. “Classifying Bounded Rationality in Limited Data Sets: A Slutsky Matrix Approach,” *SERIEs Journal of the Spanish Economic Association*, 9(4), pp 389–421.

Aguiar, Victor H. 2017. “Random Categorization and Bounded Rationality,” *Economics Letters*, 159, pp. 46-52.

**(ii) Chapters in Edited Volumes**

Aguiar, Victor H., Roland Pongou, Roberto Serrano, and Jean-Baptiste Tondji. 2019. "An Index of Unfairness," in Handbook of the Shapley Value, E. Albaba, V. Fragnelli, J. Sanchez-Soriano, eds., New York: Chapman and Hall/CRC. Chapter 3, 18 pages.

***Unpublished Work***

**(i) Articles Currently under Review at Refereed Journals**

Aguiar, Victor H.; Gauthier, Charles; Kashaev, Nail; and Plavala, Martin. "Dynamic and Stochastic Rational Behavior". Supersedes "Nonparametric Analysis of Dynamic Random Utility Models" April 2023. Western University Working Paper Series.

**(ii) Articles Currently under Revision**

Aguiar, Victor H., Per Hjerstrand, and Roberto Serrano. "A Rationalization of the Weak Axiom of Revealed Preference" March 2022 invited to resubmit to *Economics Journal*.

**(iii) Work in Progress**

Aguiar, Victor H., Per Hjerstrand, and Roberto Serrano. Convex Preferences without Transitivity.

Aguiar, Victor H. Robust Semi-Parametric Estimation of Random Coefficient Discrete Choice Models.

***Research Grants***

2022- "Nonparametric Estimation of Heterogeneous Multi-Output Production Technologies in Emerging Countries"

Role: Co-Investigator (Co-Investigator Nail Kashaev)

Grant: SSHRCC Insight Development Grant

Grantor: Social Sciences and Humanities Research Council of Canada

Amount: \$71185 CAD

Responsibilities: Full responsibility

2020- "Understanding the Effects of Bounded Rationality on Income Inequality"

Role: Principal Investigator (Co-Investigator Nail Kashaev)

Grant: Faculty of Social Science Research Grant

Grantor: Faculty of Social Science, University of Western Ontario

Amount: \$45,000 CAD

Responsibilities: Full responsibility

2019-2021 "Learning About Consumer Behaviour and Misbehavior using Big Data"

Role: Co-Investigator

Grant: SSHRCC Insight Development Grant

Grantor: Social Sciences and Humanities Research Council of Canada

Amount: \$44,624 CAD 1<sup>st</sup> year; \$24,365 CAD 2<sup>nd</sup> year  
Responsibilities: Equal for all grant holders

- 2019-2020      “Modeling and Understanding Bounded Rational Consumers Total”  
Role: Principal Investigator  
Grant: Faculty of Social Science Research Travel Grant  
Grantor: Faculty Research Development Fund, University of Western Ontario  
Amount: \$2,500 CAD  
Responsibilities: Full responsibility
- 2017-2018      “Identification and Estimation of Random Consideration Sets Models”  
Role: Principal Investigator  
Grant: Faculty of Social Science Research Development Grant  
Grantor: Faculty Research Development Fund, University of Western Ontario  
Amount: \$9,994 CAD  
Responsibilities: Equal for all grant holders

### **3.      Mentoring**

#### ***Mentoring***

#### **University of Western Ontario**

Rachel Cheng	Scholars Elective: Priming Effects on Choice
Aaron Leonard	Scholars Elective: Loss Aversion and Gender Inequality

#### ***Graduate Supervision***

##### **(i)      PhD Thesis Supervisor**

Charles Gauthier (Supervisor)	“Consumption Inequality and Purchasing Efficiency” Graduated: 2022. Currently Postdoc at ECARES Free University of Brussels.
Dazhuo Wei	“A Model of Random Attention and Stopping Times”. Expected completion: Summer 2024.

##### **(ii)      PhD Thesis Committee Member**

Meghdad Rahimian	“Environmental Regulations and Manufacturing Clean-up:” Expected completion: Summer 2023.
Terrence Adam Rooney	“The Value and Effect of Perceptiveness in a Market- Entry” Graduated 2020. Currently, Deloitte Toronto.

**(iii) PhD Summer Paper Advisor**

Hans Martinez	“Cournot Rationalizability and Measurement Error” 2021
Chong Wang	“Rational Inattention Through Motion” 2021
Wilfried Youmbi	“Nonparametric Analysis of Consumer Welfare” 2021

# Douglas W. Allen

## Short Curriculum Vitae Since 2018

Burnaby Mountain Professor  
Department of Economics

### Education:

- Ph.D. (1988), Economics, University of Washington  
Microeconomics, Law and Economics
- M.A. (1984) Economics, Simon Fraser University
- B.A. (Hons.) (1983) Economics and Business Administration,  
Simon Fraser University

### Current Position:

- 2000–: Burnaby Mountain Professor, Department of Economics, Simon Fraser University.

### Grants Since 2018:

- 2021–2024: SSHRCC Insight Research Grant
- 2018–2020: SSHRCC Institutional Grant

### Graduate Supervision Since 2018

- Lian Diao, PhD completed 2022
- Huiqian Song, PhD expected 2025

### Journal Publications Since 2018:

- “Late Homesteading: Native Land Dispossession Through Strategic Occupation” (with Bryan Leonard) *American Political Science Review* 119(1) 2025: 56–70.
- “Yoram Barzel: Commemorating the Life of an Institutional Economist” *Journal of Institutional Economics* 20(1), 2024: 1–15.
- “On the Primacy of Economic Property Rights” *Journal of Institutional Economics* 19(1), 2023: 272–275.
- “Covid-19 Lockdown Cost/Benefits: A Critical Assessment of the Literature.” *International Journal of the Economics of Business* 29(1) 2022: 1–32.
- “Property Right Acquisition and Path Dependence: Nineteenth Century

- Land Policy and Modern Economic Outcomes” (with Bryan Leonard) *The Economic Journal* 131(640) 2021: 3073–3102.
- “How Many Rushed During the Oklahoma Land Openings?” (with Bryan Leonard) *Clometrica* 14(2), 2020: 397–416.
  - “The Institutional Economics of Marriage: A Reinterpretation of Margaret Brinig’s Contribution to Family Law” *Notre Dame Law Review* 95(4) 2020: 1539–1566.
  - “Stability Rates of Same-Sex Couples: With and Without Children” (with Joseph Price) *Marriage & Family Review* 56(1) 2020: 51–71.
  - “Rationing by Racing and the Oklahoma Land Rushes” (with Bryan Leonard) *Journal of Institutional Economics* 16(2): 2020: 127–144.
  - “Right on Time: Not Quite Right on Economics” *Boston University Law Review* 99, 2019: 44–46.
  - “Establishing Economic Property Rights by Giving Away an Empire” *Journal of Law and Economics* 62(2), May 2019: 251–280.
  - “The Insight and the Legacy of ‘The Theory of Share Tenancy’,” (with Dean Lueck) *Man and the Economy* 5(1) June 2018.
  - “The Lesser of Two Weevils: British Victualling Organization In the Long Eighteenth Century” *European Review of Economic History* 22(2), May 2018: 233–259.

#### **Books Since 2018:**

- *Why the Rush? An Institutional Economic Analysis of Homesteading and the Settlement of the West* (with Bryan Leonard) (Cambridge: Cambridge University Press, forthcoming 2025).
- *Economic Analysis of Property Rights* (with Yoram Barzel) 3<sup>rd</sup> Edition. (Cambridge: Cambridge University Press, 2023).
- *Economic Literacy: A Different Approach to Economic Principles* Editions 1-6, (McInnes Creek Press, 2019–2024)

#### **Book Chapters Since 2018:**

- “Agricultural Contracts and Transaction Costs” (with Dean Lueck) in Claude Menard and Mary M. Shirley, eds. *Handbook of New Institutional Economics, 2nd Edition*. (New York: Springer, 2023).
- “Why Did States Repeatedly Use Inefficient Lockdowns During The Covid-

- 19 Pandemic?” in *Covid: What We’ve Learned but Continue to Ignore* D. Boudreaux (ed.) (Vancouver: Fraser Institute, 2022).
- “Lockdown: A Final Assessment” in *Covid: What We’ve Learned but Continue to Ignore* D. Boudreaux (ed.) (Vancouver: Fraser Institute, 2022).
  - “The Organization of Vineyards and Wineries” (with Dean Lueck) in A. A. Ugaglia *et al* (eds.), *The Palgrave Handbook of Wine Industry Economics* (London: Palgrave Macmillan, 2019).
  - “Recognizing and Solving Institutional Puzzles” in C. Ménard and M. Shirley (eds.), *A Research Agenda for New Institutional Economics* (Cheltenham: Edward Elgar Press, 2018).

### **Book Reviews:**

- “A Review of ‘The Theory of Transaction in Institutional Economics: A History.’ by Massimiliano Vatterio. *Erasmus Journal for Philosophy and Economics* 14(1), Spring 2021: 246–250.

## BERTILLE ANTOINE

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Simon Fraser University  
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Burnaby, BC V5A 1S6  
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<http://www.sfu.ca/~baa7>

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### FIELDS OF SPECIALIZATION

Econometric Theory; Financial Econometrics; Applied Econometrics.

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### ACADEMIC POSITIONS

2021-09 - present      Professor, Simon Fraser University  
2013-09 to 2021-08   Associate Professor (with tenure),  
Simon Fraser University 2012-01 to 2012-05 Visiting Assistant  
Professor, Brown University  
2011-05                Visiting Assistant Professor, Toulouse School  
of Economics 2007-09 to 2013-08      Assistant Professor,  
Simon Fraser University

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### EDUCATION

200<sub>7</sub>    Ph.D. in Economics, Universite de Montreal, Canada  
200<sub>5</sub>    M.Sc. in Statistics, University of North Carolina at Chapel Hill,  
USA  
200<sub>2</sub>    M.Sc. in Mathematical and computational finance, Universite de  
Montreal, Canada  
200<sub>2</sub>    M.Sc. in Statistics, ENSAI France  
200<sub>1</sub>    B.Sc. in Economics, Universite de Rennes, France

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### EDITORIAL EXPERIENCE

Associate Editor, Econometric Reviews, 2020-  
Guest Associate Editor, Journal of Econometrics, 2022-2024

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## PUBLISHED & FORTHCOMING PAPERS

"Simulation-based estimation with many auxiliary statistics applied to long-run dynamic analysis" (with Wenqian Sun), 2024, Accepted at Journal of Econometrics. <https://doi.org/10.1016/j.jeconom.2024.105814>

"Factor IV Estimation in Conditional Moment Models with an Application to Inflation Dynamics" (with Xiaolin Sun), 2024, Accepted at Journal of Financial Econometrics. <https://doi.org/10.1093/jjfinec/nbae004>

"GMM with Nearly-Weak Identification" (with Eric Renault), 2024, Econometrics and Statistics, Volume 30, Pages 36-59. <https://doi.org/10.1016/j.ecosta.2021.10.010>

"Identification-robust non-parametric inference in a linear IV model" (with Pascal Lavergne), 2023, Journal of Econometrics, Volume 235, Pages 1-24. <https://doi.org/10.1016/j.jeconom.2022.01.011>

"Identification-robust inference with simulation-based pseudo-matching" (with Lynda Khalaf, Maral Kichian and Zhenjiang Lin), 2023, Journal of Business Economic Statistics, Volume 41, Pages 321-338. <https://doi.org/10.1080/07350015.2021.2019046>

"Partially Linear Models with Endogeneity: a conditional moment based approach" (with Xiaolin Sun), 2022, The Econometrics Journal, Volume 25, Issue 1, Pages 256-275. <https://doi.org/10.1093/ectj/utab025>

"Robust Estimation with Exponentially Tilted Hellinger Distance" (with Prosper Dovonon), 2021, Journal of Econometrics, Volume 224, Issue 2, Pages 330-344. <https://doi.org/10.1016/j.jeconom.2020.03.027>

"Testing Identification Strength" (with Eric Renault), 2020, Journal of Econometrics, Volume 218, Issue 2, Pages 271-293. <http://doi.org/10.1016/j.jeconom.2020.04.017>

"Rejoinder: Pseudo-True SDFs in Conditional Asset Pricing Models" (with Kevin Proulx and Eric Renault), 2020, Journal of Financial Econometrics, Volume 18, Issue 4, Fall 2020, Pages 776-79. <https://doi.org/10.1093/jjfinec/nbaa019>

"Pseudo-True SDFs in Conditional Asset Pricing Models" (with Kevin Proulx and Eric Renault), 2018, Halbert White Jr. Memorial JFEC Invited Lecture, Journal of Financial Econometrics, Pages 1-59. <https://doi.org/10.1093/jjfinec/nby017>

"Efficient Estimation with Time-Varying Information and the New Keynesian Phillips Curve" (with Otilia Boldea), 2018, Journal of Econometrics, Volume 204,

Issue 2, Pages 268-300.

"On the relevance of weaker instruments" (with Eric Renault), 2017, *Econometric Reviews*, Volume 36, Issue 6-9, Pages 928-945.

"Conditional Moment Models under Semi-Strong Identification" (with Pascal Lavergne), 2014, *Journal of Econometrics*, Volume 182, Issue 1, Pages 59-69.

"Efficient Minimum Distance Estimation with Multiple Rates of Convergence" (with Eric Renault), 2012, *Journal of Econometrics*, Volume 170, Issue 2, Pages 350-367.

"Portfolio Selection with Estimation Risk: a Test-based Approach", 2012, *Journal of Financial Econometrics*, Volume 10, Pages 164-197.

"Efficient Inference with Poor Instruments: a General Framework" (with Eric Renault), *Handbook of Empirical Economics and Finance*; Editors: Aman Ullah; David E. A. Giles, December 2010.

"Efficient GMM with Nearly-Weak Identification" (with Eric Renault), 2009, *The Econometrics Journal*, Tenth Anniversary Special Issue, Volume 12, Issue 1, Pages 135-171.

"On the Efficient Use of the Informational Content of Estimating Equations: Implied Probabilities and Euclidean Empirical Likelihood" (with Helene Bonnal and Eric Renault), 2007, *Journal of Econometrics*, Volume 138, Issue 2, Pages 461-487.

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## WORKING PAPERS

"Coordinated Testing for Identification Failure and Correct Model Specification" (with David Frazier and Eric Renault).

"Inference in linear models with structural changes and mixed identification strength" (with Otilia Boldea and Niccolo Zaccaria).

"Iterative and Recursive Estimation in Misspecified Conditional Moment Models" (with Eric Renault).

"Asset Pricing with a Large Matching Model".

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## GRANTS, FELLOWSHIPS & AWARDS

2023-2026	SSHRC Insight Grant (PI), \$118,447
	Identification) estimation) and inference of dynamic causal effects in macro.
2021-2026	SSHRC Insight Grant (co-applicant), \$350,100
	Causality) identification and missing variables in Economics
2016-2021	SSHRC Insight Grant (PI), \$115,107
	Estimation uncertainty) instabilities) and nonlinearities in structural models
2016-2018	SSHRC Insight Development Grant (co-applicant), \$35,900
	Real-Time Data to Enhance the Usefulness of Policy Models
2015-2017	SSHRC Insight Development Grant (co-applicant), \$30,824
	Big Panel Data
2015-2017	SSHRC Insight Development Grant (co-applicant), \$41,580
	Robust inference economic models defined by moment restrictions
2014-2015	SFU VPR4A Grant (PI), \$9,985
2013-2014	SFU Small SSHRC Grant (PI), \$6,900
2012-2013	SFU VPR4A Grant (PI), \$10,000
2009-2012	SSHRC Standard Research Grant (PI), \$49,500
2007-2009	SFU Presidential Research Start-up Grant, \$20,000
2004-2007	SSHRC Doctoral Scholarship, \$105,000

#### PH.D. STUDENTS' SUPERVISION

Completion	Name	Role	First placement
Ongoing	Stan Hetalo	Co-supervisor	
Ongoing	Jonathan Puigvert	Senior supervisor	
Ongoing	Angulo Richmond	Senior supervisor	
2023	Tetteh Wenqian Sun	Senior supervisor	Economic Analyst, BC Ministry of Forests
2023	Marieh A:,i:,irad	Co-supervisor	Post-doc, Warwick U.
2022	Xiaolin Sun	Senior supervisor	Research Fellow, Monash U.
	<i>Winner of a Dean of Graduate Studies Convocation Medal</i>		
2021	Farouk Abdul-Salam	Co-supervisor	Economist at Ama:,on
2020	Thomas Vigie	Senior supervisor	Teaching Fellow, Simon Fraser U.
2018	Xiao Christy Yu	Junior supervisor	CMHC
2018	Keyi Kerry Zhang	Junior supervisor	Deloitte Canada
2016	Edouard Djeutem-Tsague	Junior supervisor	Bank of Canada
2012	Pierre Nguimkeu	Junior supervisor	Georgia State U.

# Fernando M. Aragón

Department of Economics  
Simon Fraser University  
8888 University Drive, Burnaby  
V5A 1S6, BC, Canada

E-mail: [faragons@sfu.ca](mailto:faragons@sfu.ca)  
Website: <http://www.sfu.ca/~faragons>

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## **CURRENT POSITION AND AFFILIATIONS**

2022- Professor (with tenure), Department of Economics, Simon Fraser University  
2016- Associate Researcher, Center for Mining and Sustainability Studies, Peru  
2024- Associate Member, School of Public Policy, Simon Fraser University

## **PREVIOUS ACADEMIC AND VISITING POSITIONS**

2016-2022 Associate Professor (with tenure), Department of Economics, Simon Fraser University  
2010-2016 Assistant Professor, Department of Economics, Simon Fraser University  
Fall 2016 Visiting Researcher, University of Maryland, Agricultural and Resources Economics  
Fall 2016 Visiting Researcher, George Washington University, Economics  
Dec 2016 Visiting Researcher, Universidad del Pacifico, Peru.

## **EDITORIAL SERVICE**

2021- Editorial Board member, *Land Economics*  
2017-2018 Associate Editor, *Resources Policy*.

## **EDUCATION**

2010 PhD Economics, London School of Economics  
2006 MRes Economics, London School of Economics  
2005 MSc Economics, London School of Economics  
2001 BSc Economics, Universidad del Pacífico, Lima, Perú

## **RESEARCH FIELDS**

Environmental and Resource Economics, Development Economics, and Political Economy

## **JOURNAL ARTICLES**

1. Assessing misallocation in agriculture: plots vs farms, *Food Policy* vol. 128, October 2024 (with Juan Pablo Rud and Diego Restuccia)

2. Job displacement costs of phasing out coal, *Journal of Public Economics* vol. 236, August 2024 (with Michael Simmons, Gerhard Toews, and Juan Pablo Rud)
3. COVID-19 and economic preferences: evidence from a panel of cab drivers, forthcoming at the *Journal of Behavioral and Experimental Economics* (with Noelia Bernal, Mariano Bosch and Oswaldo Molina)
4. The long-term impact of a resource-based fiscal windfall: evidence from the Peruvian canon, (with Hernan Winkler), *Resources Policy* 87, part A, 2023
5. The persistent effects of COVID-19 on labor outcomes: evidence from Peru, (with Minoru Higa and Carlos Ospino), *Applied Economics Letters* 30(8) 1-12, 2022
6. Are small farms really more productive than large farms?, (with Diego Restuccia and Juan Pablo Rud), *Food Policy* 106, 2022,
7. Custom Elections and Local Policies: the Case of Canada's First Nations, (with Anke Kessler), *American Economic Review Papers & Proceedings* 111, 2021
8. Climate Change and Agriculture: Farmer Responses to Extreme Heat, (with Juan Pablo Rud and Francisco Oteiza), *American Economic Journal: Economic Policy* 13(1) pp. 1-35, 2021
9. National or sub-national parties: Does party geographic scope matter?, (with Ricardo Pique and Alexey Makarin), *Journal of Development Economics* 146, 2020
10. Credit lines in microcredit: Short-term evidence from a randomized controlled trial in India, (with Alex Karaivanov and Karuna Krishnaswamy), *Journal of Development Economics* 146, 2020
11. Property rights and risk aversion: Evidence from a titling program, (with Oswaldo Molina and Ingo Leon-Outes), *World Development* 134, 2020
12. Better the Devil You Know? Re-elected Politicians and Policy Outcomes Under no Term Limits, (with Ricardo Pique), *Public Choice* 82, pp.1-16, 2020
13. Property rights on First Nations' reserve land, (with Anke Kessler), *Canadian Journal of Economics* 53 (2), pp. 460-495, 2020
14. Mining, local employment, and gender: evidence from the closure of UK coal mines, (with Juan Pablo Rud and Gerhard Toews), *Labour Economics* 52, pp. 54-67, 2018
15. Particulate matter and labor supply: the role of caregiving and non-linearities, (with Juan Jose Miranda and Paulina Oliva), *Journal of Environmental Economics and Management* 86, pp. 295-330, 2017
16. Polluting Industries and Agricultural Productivity: Evidence from Mining in Ghana, (with Juan Pablo Rud), *Economic Journal* 126 (527) pp. 1980-2011, 2016
17. Do better property rights improve local income?: evidence from First Nations' treaties, *Journal of Development Economics* 116, pp. 43-56, 2015
18. Why do parties use primaries? Political selection versus candidate incentives?, *Public Choice* 160(1), 2014.

19. Natural Resources and Local Communities: Evidence from a Peruvian Gold Mine, (with Juan Pablo Rud), *American Economic Journal: Economic Policy* 5(2), May 2013.  
 - Re-printed in F. Van der Ploeg and A. Venables eds. *'The Economics of Resource Rich Economies'* (Cheltenham: Edward Elgar), 2015.
20. Local Spending, Transfers, and Costly Tax Collection, *National Tax Journal* 66(2), 343-370, June 2013
21. Candidate Nomination Procedures and Quality of Government, *B.E. Journal of Economic Analysis and Policy (contributions)* 13(2), 783-810, 2013

## **WORKING PAPERS**

1. Electronic Voting and Residual Votes: Evidence from a Natural Experiment in Peru (with Alberto Chong and Angelo Cozzubo), *R&R at Public Choice*

## **WORK IN PROGRESS**

1. Adaptation to temperature and air pollution: evidence from competitive runners (with Mahyar Rezazadeh)
2. Misallocation of labor on First Nations' reserves
3. Land fragmentation and pesticides: evidence from banana plantations (with Joan Calzada and Bernard Moscoso)
4. Understanding female earnings during and after marriage - is there a divorce premium? (with Anke Kessler)
5. Immigrants' pathways to success: student permits vs permanent residencies (with Kiarash Hosseini)

## **REPORTS, POLICY BRIEFS AND OP-EDS**

1. Contributor to "Income Support and Indigenous Peoples in B.C., An Analysis of Gaps and Barriers", a technical report for the BC Government as part of the Basic Income expert panel, available at <https://www2.gov.bc.ca/assets/gov/british-columbians-our-governments/initiatives-plans-strategies/poverty-reduction-strategy/indigenous-income-support.pdf>
2. "The Local Economic Impacts of Resource Abundance: What Have We Learned?" (with Punam Chuhan-Pole and Bryan C. Land), in *Socioeconomic Impact of Mining on Local Communities in Africa*, World Bank Group, Report No. ACS14621, June 2015
3. "Capacidades tecnicas y gasto local: el caso de las municipalidades peruanas", *Perspectivas* 7(1) pp. 89-113, Bogota: Andean Development Corporation (CAF), 2009 [Title in English: Local Governments' Technical Capacity and Performance: Evidence from Peruvian Municipalities]. (with Carlos Casas)
4. *Aterrizaje minero. Cultura, conflicto, negociaciones y lecciones para el desarrollo desde la*

*mineria en Ancash, Peru*, by Vladimir R. Gil. Reviewed in: *Apuntes* 37(68), 2011, Lima: Universidad del Pacifico, pp. 283-285 [Title in English: Mining landing. Culture, conflict, negotiations and lessons for development: the case of mining in Ancash, Peru.]

5. “*The Effect of First Nations Modern Treaties on Local Income*”, E-brief, policy report, C.D. Howe Institute, October 2015.

### **HONORS, SCHOLARSHIPS AND GRANTS:**

2025-2027	SSHRC Insight Development Grant, “Understanding female earnings during and after marriage - is there a divorce premium?”, co-applicant, CAD 74,970
2024	FASS Chair research grant, CAD 5,000
2024	Small SSHRC grant, “Immigrants' pathways to success: student permits vs permanent residencies”, main applicant, CAD 7,000
2022-2025	SSHRC Insight Development Grant, “Barriers to mobility and misallocation: the case of Canada's First Nations”, main applicant, CAD 50,255
2018-2021	SSHRC Insight Grant, “Climate change, adaptation, and agriculture in developing countries” main applicant, CAD 81,454
2018	Small SSHRC grant, “ Climate Change and Agriculture in Sub-Saharan Africa “main applicant, CAD 7,000
2014	SSHRC-SFU VPR 4A grant, main applicant, CAD 9,100
2014	Small SSHRC grant, “Economic effects of First Nations’ modern treaties”, main applicant, CAD 7,000
2013	Albert Berry prize, granted by the Canadian Development Economics Study Group (CDESG) for the paper “Polluting Industries and Agricultural Productivity: Evidence from Mining in Ghana”.
2011	International Growth Centre (IGC) Research Grant, “Mining and Living Standards in Ghana”, co-applicant with Juan Pablo Rud, GBP 23,650
2011	Metropolis Grant, “Initial Housing Conditions and Immigrants Integration”, main applicant, CAD 15,000
2010	Endowed Research Fellowship, SFU, CAD 5,000
2010	President’s Research Start-Up Grant, SFU, CAD 17,500
2007	Departmental Teaching Prize, Department of Economics, LSE
2006-2010	Dorothy Hodgkin Postgraduate Award, scholarship awarded every year to 2 PhD students of any field at LSE
2005-2006	LSE Research Studentship
2005	Michio Morishima Grant
2004-2005	Chevening Scholarship, granted by UK Foreign Office
2000	Jan Tinbergen Scholarship, granted by Nuffic

### **STUDENT SUPERVISION**

*PhD students*

Current	Huiqian Song, Mahyar Rezazadeh, GaRam Kim (on leave) and Kiarash Hosseini (senior supervisor)
2024	Boyuan Wang (senior supervisor).
2023	Minoru Higa (senior supervisor). Placement: Universidad de los Andes (Business), Assistant Professor
2023	Boxi Yang (committee member). Placement: Conference Board of Canada
2023	Shirleen Manzur (committee member).

*Master students*

2020	Jacquelyn Draper (senior supervisor). Placement: Queens University (Economics), PhD program
2015	Catherine Michaud-Leclerc (senior supervisor). Placement: University of Toronto (Economics), PhD program

*Honor undergraduate students*

2023	Yoon Jeong (Lauren) Hwang, winner of the Jack Knestch Award for best SFU undergraduate thesis and the CEA – Bank of Canada Undergraduate Student Paper Award for best research paper
2022	Doina Rusu, winner of the CEA – Bank of Canada Undergraduate Student Paper Award for best research paper
2022	Weiyu (Aaron) Chen, winner of the Jack Knestch Award for best SFU undergraduate thesis and the CEA – Bank of Canada Undergraduate Student Paper Award for the best presentation

# Curriculum Vitae: Chris Bidner

## Current Position

Associate Professor, Simon Fraser University

Sept 2017 – Present

## Credentials

Associate Professor, Simon Fraser University

Sept 2017 – Present

Associate Editor, Journal of Development Economics

Oct 2017 – Present

ThReD Research Associate

Jun 2011 – Present

Assistant Professor, Simon Fraser University

Jan 2014 – Aug 2017

Lecturer (Assistant Professor), University of New South Wales

Aug 2008 – Dec 2013

Continuing Appointment (Tenure) granted Oct 2012

Ph.D, University of British Columbia

Sept 2003 – Jan 2009

MA, University of British Columbia

Sept 2002 – Aug 2003

B.Ec (Hons 1), University of New South Wales

Mar 1998 – Dec 2001

## Research Interests/Fields

Applied Theory, Economic Development, Political Economics

## Publications Since 2018

Francois, P., & Bidner, C. (2024). '[The Problem with Authoritarian Populists](#)'. *Studies in Microeconomics*, 12(1), 59-73.

Anderson, S., & Bidner, C. (2023). '[An institutional perspective on the economics of the family](#)'. In *Handbook of the Economics of the Family* (Vol. 1, pp. 443–500). Elsevier.

Anderson, S. & Bidner, C. (2022) '[Integrating economic and evolutionary approaches to polygynous marriage](#).' *Evolutionary Human Sciences*, Volume 4 , 2022

## Grants Since 2018

SSHRC Insight Grant, (with Siwan Anderson). (\$251 000);

2020-2025

“Unbundling Female Empowerment”

SSHRC Insight Grant, PI. (\$73 052);

2016-2019

“Economic Foundations of Poor Government”

## Graduate Supervision Since 2018

Zhifeng Sun

PhD Main advisor

In progress

Matheus Bandeira

PhD Main advisor

In progress

Esmaeil Izadi

PhD Main advisor

In progress

Azraf Ahmad

PhD Main advisor

In progress

Shirleen Manzur

PhD Main advisor

Defended 2023, SRDC

Boxi Yang

PhD Main advisor

Defended 2023, SRDC

**Serena Canaan**

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 Simon Fraser University  
 West Mall Centre, Office 2680  
 8888 University Dr, Burnaby, BC V5A 1S6

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Email: [scanaan@sfu.ca](mailto:scanaan@sfu.ca)

<https://sites.google.com/site/serenacanaan87>

**Academic Positions:**

2021- Assistant Professor, Department of Economics, Simon Fraser University  
 (Parental leave: December 2021-April 2022)  
 2022- Tier 2 Canada Research Chair in Applied Microeconomics  
 2016-2022 Assistant Professor, Department of Economics, American University of Beirut  
 Fall 2018-2019 Visiting Scholar, IRLE, University of California Berkeley

**Affiliations:**

2024- Associate Member, School of Public Policy, Simon Fraser University  
 2019- Research Affiliate, Institute of Labor Economics (IZA)  
 2013-2016 Graduate Associate, Broom Center for Demography, UC Santa Barbara

**Research Interests:** Applied Microeconomics, Labor Economics, Economics of Education, Family Economics

**Education:**

2016	Ph.D.	Economics	University of California, Santa Barbara
2012	M.A.	Economics	University of California, Santa Barbara
2011	M.A.	Economics	American University of Beirut
2008	B.A.	Economics	Université Saint-Joseph

**Publications:**

The Long-Run Educational Benefits of High-Achieving Classrooms, with Pierre Mouganie and Peng Zhang. *Forthcoming, Journal of Policy Analysis and Management*.

Does Reducing Early School Tracking Affect Health Behaviors? *AEA Papers and Proceedings* 114: 375-380, May 2024.

Is Parental Leave Costly for Firms and Coworkers?, with Anne Brenøe, Nikolaj Harmon and Heather Royer. *Forthcoming, Journal of Labor Economics*.

The Impact of Advisor Gender on Female Students' STEM Enrollment and Persistence, with Pierre Mouganie. *Journal of Human Resources* 58 (2) 593-632, March 2023.

Advisor Value-Added and Student Outcomes: Evidence from Randomly Assigned College Advisors, with Antoine Deeb and Pierre Mouganie. *American Economic Journal: Economic Policy* 14 (4): 151-191, November 2022.

Maternity Leave and Paternity Leave: Evidence on the Economic Impact of Legislative Changes in High Income Countries, with Anne Sophie Lassen, Philip Rosenbaum and Herdis Steingrimsdottir. In *The Oxford Research Encyclopedia of Economics and Finance*, July 2022.

Parental Leave, Household Specialization and Children's Well-Being. *Labour Economics* 75: 102127, April 2022.

Does Advisor Gender Affect Women's Persistence in Economics?, with Pierre Mouganie. *AEA Papers and Proceedings* 111: 112-116. May, 2021.

The Long-Run Effects of Reducing Early School Tracking. *Journal of Public Economics* 187:104206, July 2020.

Returns to Education Quality for Low-Skilled Students: Evidence from a Discontinuity, with Pierre Mouganie. *Journal of Labor Economics* 36 (2): 395-436, April 2018.

## Working Papers:

Keep Me In, Coach: The Short- and Long-Term Effects of a University Coaching Intervention, with Stefanie Fischer, Pierre Mouganie and Geoffrey Schnorr. *Revise and resubmit, Journal of Political Economy: Microeconomics*

The Impact of Religious Diversity on Students' Academic and Behavioral Outcomes, with Antoine Deeb and Pierre Mouganie. *Revise and resubmit, Journal of Labor Economics*

The Impact of Delaying Early School Tracking on Fertility and Marriage Outcomes

## Selected Work in Progress:

The Role of University Policies in Exacerbating Socioeconomic Inequality, with Stefanie Fischer, Pierre Mouganie and Geoffrey Schnorr

## Grants:

- 2024 SFU FASS Kickstarter Seed Grant. PI. \$13,538.
- 2022 "Identifying opportunities to improve the lived experiences and health of working women in the MENA: from COVID to recovery". International Development Research Centre (IDRC) Women RISE Grant. Co-PI. \$107,180.
- 2022 "Intergroup Contact and National Integration in Divided Society". SSHRC Insight Development Grant. Co-Investigator. \$67,371.
- 2018 Center for Teaching and Learning SOTL Grant (AUB), with Pierre Mouganie
- 2017 University Research Board Faculty Grant (AUB), with Pierre Mouganie
- 2017 Short Term Faculty Development Grant (AUB)

## Awards:

- 2022 Upjohn Institute 2022 Early Career Research Awards (ECRA)
- 2014-2015 Graduate Opportunity Fellowship, University of California, Santa Barbara
- 2012-2013 Research Fellow, University of California Center for Energy and Environmental Economics (UCE<sup>3</sup>)
- 2012 Distinction in Macroeconomics Preliminary Examination
- 2011 Best Graduate Student Paper Award, Center for Research on the Economies of the Mediterranean, Barcelona Graduate School of Economics
- 2010-2011 Graduate Assistant, American University of Beirut

## Conferences and Seminars:

- 2024 American Economic Association (AEA) Annual Meetings; Gateway Education Policy Team Meeting; Western Economic Association International (WEAI) Annual Conference; AEFP Scholars of Education in Developing Countries (EdDev) Meeting; Canadian Conference on Global Health (panel); Western Washington University
- 2023 Dalhousie University; Sciences Po Summer Workshop: Labor; University of Colorado Denver
- 2022 CESifo Venice Summer Institute Economics of Education and Equality of Opportunity; 21st IZA/SOLE Transatlantic Meeting of Labor Economists; 7th IZA Workshop on the Economics of Education; University of Johannesburg
- 2021 University of Essex; Federal Reserve Board; New York University Abu Dhabi; Nova School of Business; Católica Lisbon School of Business & Economics; Stockholm University SOFI; Universitat Autònoma de Barcelona; Simon Fraser University; Mississippi State University; Pacific Conference for Development Economics (PacDev); American Economic Association (AEA) Annual Meetings
- 2020 CESifo EffEE Conference on Econometric Evaluation of School Reforms (canceled); CESifo Venice Summer Institute Economics of Education and Equality of Opportunity (canceled); EALE SOLE AASLE World Conference

2019	ZEW Workshop on the Economics of Higher Education; Koç University; SOLE Annual Meetings
2018	UC Berkeley Labor Lunch; UC Berkeley IRLE Workshop; UC Davis; UC Santa Barbara Labor Lunch; USC CESR Brown Bag; NBER Summer Institute Children (co-author presented); 3rd Meeting of the Lebanese Econometric Study Group
2017	Population Association of America Meetings; SOLE Annual Meetings; 2nd IZA Junior/Senior Symposium; 1st IZA Workshop on Gender and Family Economics; 2nd Meeting of the Lebanese Econometric Study Group
2016	SOLE Annual Meetings; WEAI Graduate Student Workshop; European Economic Association Annual Congress; Trans-Pacific Labor Seminar; Association for Education Finance and Policy Conference
2015	18th IZA European Summer School in Labor Economics; Southern California Conference in Applied Microeconomics; UC Santa Barbara Labor Lunch

### Teaching:

#### ***Simon Fraser University:***

Econ 835– Econometrics (Fall 2022)

Econ 280– Introduction to Labor Economics (Spring 2023; Spring 2024)

Econ 881– Labor Economics (Fall 2023)

#### ***American University of Beirut:***

Elementary Microeconomic Theory, Applied Econometrics

#### ***UC Santa Barbara:***

Teaching Assistant– Principles of Macroeconomics, Introduction to Econometrics, Natural Resource Economics, Intermediate Microeconomic Theory, Intermediate Macroeconomic Theory, Statistics with Economics and Business Applications

### Professional Service:

***Referee for:*** *American Economic Journal: Applied Economics, American Economic Journal: Economic Policy, Journal of the European Economic Association, Journal of Public Economics, Journal of Human Resources, Labour Economics, Demography, European Economic Review, Industrial and Labor Relations Review, Economics of Education Review, Review of Economics of the Household, Journal of Policy Analysis and Management, Journal of Labor Research, Economic Inquiry, Journal of Labor Economics, Journal of Development Economics, Economics Bulletin, World Development, Journal of Population Economics, American Economic Review: Insights, Journal of Economic Behavior and Organization, Review of Economics and Statistics, Economic Journal*

2024– Founding member, AREENA Arab Economists in Europe and North America

#### ***University Service:***

##### ***Simon Fraser University:***

Fall 2023 Member of economics department chair search committee

2023-2024 Departmental Seminar series co-organizer

Fall 2022 Member of economics department hiring committee

2021-2022 Brown Bag Seminars co-organizer

##### ***American University of Beirut:***

2020 Member of the AI, Computational & Data Sciences Task Force

2017–2018 Freshman academic advisor

2017– Economics department library Liaison

2016–2017 Economics department hiring committee

#### ***Other:***

Reviewer for AUB's Center for Teaching and Learning annual conference

**Computer Skills:** STATA, MATLAB,  $\text{\LaTeX}$ , Microsoft Office

**Languages :** English (Fluent), French (Fluent), Arabic (Native)

NAME: David J. Cox

ADDRESS: (Home) 301-121 12<sup>th</sup> Street East  
North Vancouver, B.C., V7L 2J3  
(604) – 904-2206

(Business) Department of Economics  
Simon Fraser University  
Burnaby, B.C.  
(778) – 782-5826  
Email: dcox@sfu.ca

CITIZENSHIP: Canadian

EDUCATION: B.A. (Honours) – 1975 University of Western Ontario

M.A. – 1976 – University of Alberta

Ph.D – 1987 – Queens University

EMPLOYMENT: 2018 – University Lecturer  
Simon Fraser University

2000-2018 Senior Lecturer  
Simon Fraser University

1995-1996 Assistant Professor  
University of Waterloo

1993-1995 Visiting Assistant Professor  
Queen's University

1990-1993 Assistant Professor  
University of Waterloo

1987 –1989 Visiting Assistant Professor  
University of Toronto

1985-1987 Lecturer  
Queen's University

1983-1985 Lecturer  
University of Western Ontario

### **Classes taught as a member of the SFU Economics Department**

105 Principles of Macroeconomics  
103 Principles of Microeconomics  
210 Money and Banking  
301 Intermediate Microeconomics  
300 Introduction to Economics  
310 Money and Banking  
001 Economics at the Movies  
342 International Trade  
345 International Finance  
362 Natural Resources  
368 Regional Economics  
382 Cost-Benefit Analysis  
402 Seminar in Advanced Microeconomics  
410 Seminar in Monetary Theory  
422 Seminar in Game Theory  
443 Seminar in International Trade  
446 Seminar in International Finance  
483 Seminar in Economic Growth  
483 Seminar in Economic Regulation

# Minjie Deng

[Updated: Feb 2025]

Department of Economics  
Simon Fraser University  
Canada

Email: [minjied@sfu.ca](mailto:minjied@sfu.ca)  
Office: WMC 2678  
Homepage: <https://www.minjiedeng.me/>

EMPLOYMENT	Assistant Professor of Economics, Simon Fraser University (on leave from January 2024 to August 2024)	2020 – present
OTHER POSITIONS	Visiting Scholar, University of Rochester	Nov 2022
	Visiting Scholar, Federal Reserve Bank of St. Louis	Oct 2022
EDUCATION	Ph.D. in Economics, University of Rochester, NY, United States	2015 – 2020
	References: Yan Bai, George Alessandria, Narayana Kocherlakota, Yena Park	
	M.A. in Economics, Renmin University, Beijing, China	2013 – 2015
	B.A. in Economics, Renmin University, Beijing, China	2009 – 2013
RESEARCH FIELDS	International Economics, Macroeconomics	
PUBLICATIONS	“Public Financing Under Balanced Budget Rules”, with Chang Liu Forthcoming, <i>Review of Economic Dynamics</i> , Volume 56, April 2025	
	“A Note on Allowing State Bankruptcy” <i>Macroeconomic Dynamics</i> , Volume 29, e47 (pp. 1–14), 2025	
	“Sovereign Risk and Intangible Investment”, with Chang Liu <i>Journal of International Economics</i> , Volume 152, November 2024	
	“Inequality, Taxation, and Sovereign Default Risk” <i>American Economic Journal: Macroeconomics</i> , Volume 16 (pp. 217-49), April 2024	
	“Debt Maturity Heterogeneity and Investment Responses to Monetary Policy”, with Min Fang <i>European Economic Review</i> , Volume 144, May 2022	
	“Migration and Sovereign Default Risk”, with George Alessandria and Yan Bai <i>Journal of Monetary Economics</i> , Volume 113, August 2020	

<b>WORKING PAPERS</b>	“Financing Innovation with Innovation”, with Zhiyuan Chen and Min Fang	
	“Pareto Weights in Indebted Economies”	
	“Trade Barriers and Sovereign Default Risk”, with George Alessandria, Yan Bai and Chang Liu	
	“From Diaspora Dollars to Default Risk: Remittances and Sovereign Spreads”, with Armen Khederlarian	
<b>SELECTED WORK IN PROGRESS</b>	“Sovereign Debt Crisis or Financial Crisis: Evidence from Exports”, with George Alessandria, Yan Bai, and Chang Liu	
	“Sovereign Default Risk and Wealth Inequality”, with Min Fang, Philipp Renner, and Simon Scheidegger	
	“Government Finance and Worker Migration across U.S. States”, with Min Fang, Zibin Huang, and Chang Liu	
	“World Financial Cycles and Global Trade”, with Yan Bai, Chang Liu, and Gabriel Mihalache	
<b>DISCUSSIONS</b>	Discussion on “Domestic Policies and Sovereign Default” by Emilio Espino, Julian Kozlowski, Fernando M. Martin, Juan M. Sanchez, at the 3rd TWID International Finance Conference, University of Tokyo July 2022	
	Discussion on “Sovereign Default and Global Financial Shock” by JungJae Park, at the 1st International Macro/Finance and Sovereign Debt Workshop in East Asia, Sogang University Nov 2020	
	Discussion on “The Effects of Sector-Specific Credit Supply Shocks on the U.S. Economy” by Maximillian Littlejohn, at SFA annual meeting (Palm Springs) Nov 2020	
<b>CONFERENCE PRESENTATIONS (INCLUDING SCHEDULED)</b>	Leuven Summer Event: Macroeconomics workshop (KU Leuven) 2025	
	Western Economic Association International Annual Conference (Seattle), Canadian Macro Study Group (HEC Montreal) 2024	
	The 2nd International Symposium on Frontiers of Theoretical Economics (Nanjing University) 2023	
	ASSA Annual Meeting, Midwest Macro (Logan, UT), Annual Meeting of Canadian Economics Association (Ottawa), SED Annual Meeting (Madison, WI), 3rd Women in International Economics conference (Federal Reserve Bank of Minneapolis and University of Minnesota) 2022	

	ASSA Annual Meeting, Royal Economic Society (RES) Conference, RES Symposium, Annual Meeting of Canadian Economics Association, A. Stockman University of Rochester Alumni Conference, 35th Annual Meeting of Canadian Macro Study Group (University of British Columbia), ES European Winter Meeting (University of Barcelona School of Economics), Winter School 2021 (Delhi School of Economics and The Econometric Society)	2021
	CES North America Conference (MIT), Congress of EEA (Rotterdam), VMACS Junior Conference, INFER Conference (Paris), SFA Annual Meeting (Palm Springs), ES European Winter Meeting (University of Nottingham), Winter School 2020 (Delhi School of Economics and The Econometric Society)	2020
	Midwest Macro (University of Georgia), SED Annual Meeting (Washington University in St.Louis), Carnegie-Rochester-NYU Conference (Carnegie Mellon University)	2019
	Youth Economic Forum (Peking University), Undergraduate Economics Conference (SUFE)	2015
<b>INVITED SEMINARS (INCLUDING SCHEDULED)</b>	University of Victoria	2025
	Binghamton University	2024
	Villanova University	2023
	Sovereign Debt Workshop at IMF, Jinan University IESR, Federal Reserve Bank of St. Louis, CWEC Brownbag	2022
	Canadian Macro Study Group Virtual Seminar Series, National University of Singapore, Shanghai University of Finance and Economics, Bank of Canada	2021
	Georgia State University, Simon Fraser University	2020
	University of Rochester, Tsinghua University	2019
<b>GRANTS</b>	SFU VPA Conference Fund, \$4,500	2023
	SSHRC Insight Development Grant, \$52,910	2022 – 2024
	SFU VPR Travel Grant	2022
	SSHRC-SFU Institutional Grant, \$6,912	2021 – 2022
	SFU Presidential Research Start-Up Grant, \$20,000	2020 – 2025
	PEPR Grant, W. Allen Wallis Institute of Political Economy	2017
	Summer Research Grant, University of Rochester	2017
<b>TEACHING</b>	Instructor, Simon Fraser University	
	Directed Readings (Econ 921, Ph.D.)	2025

	Seminar in International Finance (Econ 446, Undergraduate)	2021, 2022, 2024
	Advanced Macro Theory (Econ 809, Ph.D.)	2021, 2022, 2023, 2025
	International Monetary Economics (Econ 842, Ph.D. & Master)	2022, 2023, 2025
	Teaching Assistant, University of Rochester	2017 – 2020
	Macroeconomics (Ph.D.)	
	Economics of Globalization (Undergraduate)	
	Intermediate Macroeconomics (Undergraduate)	
<b>STUDENT SUPERVISION</b>	Graduate Research Assistant Hau Pang Chow (SFU)	2025
	Graduate Research Assistant Eric Fortier (SFU)	2023
	SFU Undergraduate Student Research Award: Yi-Shan Liu	2022
	Ph.D. Dissertation Defense Examiner for: Yang Li (SFU)	2022
	Graduate Research Assistant Kyeongmin Park (Rochester)	2021 – 2023
	Graduate Research Assistant Anil Donmez (SFU)	2021
<b>SERVICE</b>	Referee for <i>American Economic Journal: Macroeconomics, Economic Inquiry, European Economic Review, IMF Economic Review, Journal of Economic Dynamics and Control, Journal of International Economics, Journal of Monetary Economics, Review of Economic Studies</i>	
	Tenure and Promotions Committee, SFU	2024 – 2025
	Organizing Committee, 9th Annual West Coast Workshop in International Finance	2023
	Tenure and Promotions Committee, SFU	2023
	Ph.D. Macro Comprehensive Exam Committee, SFU	2021, 2022, 2023
	Research Seminar Committee, SFU	2022 – 2023
	Appointments Committee, SFU	2021 – 2022
	Brown Bag Seminar Committee, SFU	2020 – 2021
	Program Committee, Southern Finance Association Meeting	2020
<b>AWARDS &amp; SCHOLARSHIPS</b>	Graduate Fellowship and Tuition Scholarship, University of Rochester	2015 – 2020
	Beijing Outstanding Graduate Student, Beijing	2015
	Outstanding Master Student Award, Renmin University of China	2015

Outstanding Undergraduate Award, Renmin University of China

2013

**PRE-PHD PUBLICATIONS** “Is Monetary Policy Effective During New Phase in China?”, with Zhengyan Xiao and Zhexi Liu, World Economic Papers, 2016(02) (in Chinese)

“Municipal Bond: A New Channel to Finance Urbanization in China”, with Chenyang Yu, Academic Forum, 2013(03) (in Chinese)

**LANGUAGES** English (fluent), Chinese (native)

**SKILLS** Python, MATLAB, Stata, R, L<sup>A</sup>T<sub>E</sub>X, Linux, Fortran

## David Freeman

### Current Positions

Associate Professor, Department of Economics, Simon Fraser University

Undergraduate Chair, Department of Economics, Simon Fraser University

Vice-Chair, Research Ethics Board, Simon Fraser University

### Credentials

PhD, Economics, University of British Columbia, 2013

MA, Economics, University of British Columbia, 2007

BA, Economics and Geography, University of Guelph, 2006

### Publications since 2018

Ellis, Andrew and David Freeman. 2024. "[Revealing Choice Bracketing](#)." *American Economic Review*, 114(9): 2668-2700.

Freeman, David and Kevin Laughren\*. 2024. "[Task Completion Without Commitment](#)." *Experimental Economics*, 27:273-294.

Tong, Hanh and David Freeman. 2021. "[Anchors of Strategic Reasoning in the Traveler's Dilemma](#)". *Journal of Economic Behavior & Organization*, 191: 28-38.

Freeman, David. 2021. "[Revealing Naïveté and Sophistication from Procrastination and Preproperation](#)". *American Economic Journal: Microeconomics*, 13(2): 402-438

Freeman, David, Erik Kimbrough, and Philipp Reiss. 2020. "[Opportunity Costs, Inattention, and the Bidder's Curse](#)". *European Economic Review*, 129: article 103543.

Freeman, David. 2019. "[Expectations-Based Reference-Dependence and Choice under Risk](#)". *Economic Journal*, 129(622): 2424-2458.

Freeman, David and Guy Mayraz. 2019. "[Why Choice Lists Increase Risk-Taking](#)". *Experimental Economics*, 22(1): 131-154.

Freeman, David, Yoram Halevy, and Terri Kneeland. 2019. "[Eliciting Risk Preferences using Choice Lists](#)". *Quantitative Economics*, 10(1): 217-237.

Freeman, David, Erik Kimbrough, Garrett Petersen, and Hanh Tong. 2018. "[Instructions](#)". *Journal of the Economic Science Association*, 4(2): 165-179.

### Grants since 2018

2022-2026	SSHRC Insight Grant	\$155,100
2018-2021	SSHRC Insight Grant	\$95,078
2018-2020	SFU/SSHRC Institutional Research Grant	\$7,000

### **Graduate Supervision since 2018**

P. Marie Zagre, ongoing, senior supervisor

Babak Sahragard, ongoing, committee member

Kevin Laughren, PhD 2022, senior supervisor (first placement: Postdoc at Smith School of Business, Queen's University; now: Lecturer at Simon Fraser University)

Garrett Petersen, PhD 2021, senior supervisor (first placement: Senior Data Scientist at Abio Systems; now: Data Scientist at OpenBlock Labs)

Hanh Tong, PhD 2020, senior supervisor (first placement: Data Scientist at Theory & Practice; now: Data Scientist at Pinterest)

# Michael Gilraine

## Business Address

Economics Department  
Simon Fraser University  
West Mall Centre 3602  
8888 University Drive  
Burnaby, BC Canada B5A 1S6

Phone: 778-782-3508

Email: [gilraine@sfu.ca](mailto:gilraine@sfu.ca)

Website: [www.sfu.ca/~jgilrain](http://www.sfu.ca/~jgilrain)

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## Employment

Assistant Professor, Department of Economics, Simon Fraser University	2023-present
Assistant Professor, Department of Economics, New York University	2017-2023

## Affiliations

National Bureau of Economic Research, Faculty Research Fellow	2021-present
EdWorkingPapers at Annenberg Institute, Contributor	2020-present

## Education

Ph.D., Economics, University of Toronto	Sep 2011- Nov 2017
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Thesis: *Three Essays in the Economics of Education*

Advisors: Robert McMillan, Philip Oreopoulos, Natalie Bau

Co-Winner: 2017 National Tax Association Outstanding Doctoral Dissertation in Government

Finance and Taxation

M.A., Economics, University of British Columbia	2010-2011
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B.Comm., Finance, University of British Columbia	2005-2009
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## Fields

Economics of Education, Labour Economics, Public Economics, Environmental Economics, Applied Econometrics, Industrial Organization.

## Publications (and Accepted)

"The Effect of the Prior Teacher on Value-Added" with Odhrain McCarthy. Accepted at Review of Economics and Statistics. (Working Paper: Ed Working Paper No. 21-354.)

"Air Filters, Pollution, and Student Achievement." Accepted at Journal of Human Resources. (Working Paper: Ed Working Paper No. 20-188.)

“Focused Interventions and Test Score Fade-Out,” with Jeffrey Penney. Accepted at Review of Economics and Statistics. (Working Paper: Ed Working Paper No. 21-444.)

“JUE Insight: Air Pollution and Student Performance in the U.S.,” with Angela Zheng. *Journal of Urban Economics*. 143 (2024): 103686.

“Coal Use, Air Pollution, and Student Performance,” with Valentina Duque. *Journal of Public Economics* 213 (2022): 104712.

“Horizontal Differentiation and the Policy Effect of Charter Schools,” with Uros Petronijevic and John Singleton. *American Economic Journal: Economic Policy* 13, no. 3 (2021): 239-276.

“A Method for Disentangling Multiple Treatments from a Regression Discontinuity Design,” *Journal of Labor Economics* 38, no. 4 (2020): 1267-1311.

### Working Papers

“A Nonparametric Approach for Studying Teacher Impacts” (with Jiaying Gu and Robert McMillan), 2022. (Formerly NBER Working Paper No. 27094 “A New Method for Estimating Teacher Value-Added.”) Revise and Resubmit at Review of Economic Studies.

“School Choice, Competition, and Aggregate School Quality” (with Uros Petronijevic and John Singleton), NBER Working Paper No. 31328, 2023. Revise and Resubmit at Economic Journal.

“Public Education and Intergenerational Housing Wealth Effects” (with James Graham and Angela Zheng), NBER Working Paper No. 31345, 2023. Revise and Resubmit at American Economic Journal: Macroeconomics.

“It Takes Time: The Asymmetric Impacts of Imposing and Removing a Teacher Incentive Scheme” (with Uros Petronijevic and Nolan Pope), 2022.

“The Effects of Public Housing on Children: Evidence from Colombia” (with Adriana Camacho, Valentina Duque, and Fabio Sanchez), NBER Working Paper No. 30090, 2022.

“Education Reform in General Equilibrium: Evidence from California’s Class Size Reduction” (with Hugh Macartney and Robert McMillan), NBER Working Paper No. 24191, 2018.

“Making Teacher Last: Long- and Short-Run Value-Added” (with Nolan Pope), NBER Working Paper No. 29555, 2021.

“School Accountability and the Dynamics of Human Capital Formation,” 2018.

### Works in Progress

“Using Item Response Data to Better Represent and Understand Student Learning.” (with Jesse Bruhn, Jens Ludwig and Sendhil Mullainathan).

"Neighbors" (with Valentina Duque, and Fabio Sanchez).

"Enrollment Manipulation, Class Size Caps and Educational Segregation." (with Robert McMillan)

## Teaching

Course Instructor, New York University	2018-present
• PhD Labor Economics II (graduate)	2018-present
• Labor Economics (undergraduate)	2019-present
• Introduction to Econometrics (undergraduate)	Spring 2018
Course Instructor, University of Toronto	Spring 2016
• Refresher for Quantitative Methods for Policy Analysis (graduate)	

## Grants

Spencer Foundation Research Grants on Education: Large (collaborator)	2025-2028
(Value: \$160,000 USD)	
Crime and Violence Initiative	2025-2027
(Value: \$40,000 USD)	
Urban Institute: Student Upward Mobility Initiative (co-PI)	2024-2026
(Value: \$150,000 USD)	
Social Sciences and Humanities Research Council Insight Grant (collaborator)	2023-2025
(Value: \$44,000 CAD)	
Spencer Foundation Research Grants on Education: Small	2021-2024
(Value: \$50,000 USD)	
Social Sciences and Humanities Research Council Insight Grant (collaborator)	2020-2024
(Value: \$180,000 CAD)	
Faculty Research Support Scheme at University of Sydney (collaborator)	2019-2020
(Value: \$60,000 AUD)	
Social Sciences and Humanities Research Council Insight Grant (collaborator)	2018-2021
(Value: \$90,000 CAD)	

## Graduate Supervision and Placements

Angela Crema. Completed: 2024. Initial Placement: University of Rochester (Assistant Professor)  
 Matias Morales Cerda. Completed: 2024. Initial Placement: Tulane University (Post-doc)  
 Ozde Ozkaya. Completed: 2023. Initial Placement: Keystone Strategy (Senior Economist)  
 Ewout Verriest. Completed: 2019. Initial Placement: Penn State University (Assistant Professor)

Simon Fraser University  
Department of Economics  
8888 University Drive  
Burnaby, B.C. Canada V5A 1S6

CV for BSc Economics  
March 2025

## LUCAS MANUEL HERRENBRUECK

Phone: (778) 782-4805  
Email: herrenbrueck@sfu.ca

Citizenship: German, Canadian  
Website: <http://herrenbrueck.weebly.com/>

*Academic specialization:* Macroeconomics, Monetary Economics, Economic Theory

### ACADEMIC POSITIONS

---

Associate Professor of Economics	Simon Fraser University (SFU)	since 2020
Assistant Professor of Economics	Simon Fraser University (SFU)	2014–2020

### EDUCATION

---

PhD	Economics	University of California, Davis	2014
MSc	Economics	London School of Economics	2009
BSc	Mathematics	Jacobs University, Bremen, Germany	2007

### PUBLICATIONS SINCE 2018

---

Athanasios Geromichalos, Lucas Herrenbrueck, and Zijian Wang (2022):  
“Asymmetric Information and the Liquidity Role of Assets”  
Accepted at *Economic Theory*

Miroslav Gabrovski, Athanasios Geromichalos, Lucas Herrenbrueck, Ioannis Kospentaris, and Sukjoon Lee (2025): “The Real Effects of Financial Disruptions in a Monetary Economy”  
*Journal of Monetary Economics* (DOI: 10.1016/j.jmoneco.2025.103735)

Athanasios Geromichalos, Lucas Herrenbrueck, and Sukjoon Lee (2023):  
“Asset Safety versus Asset Liquidity”  
*Journal of Political Economy* (DOI: 10.1086/722225)

Athanasios Geromichalos, Lucas Herrenbrueck, and Sukjoon Lee (2023):  
“The Strategic Determination of the Supply of Liquid Assets”  
*Review of Economic Dynamics* (DOI: 10.1016/j.red.2022.08.003)

Athanasios Geromichalos and Lucas Herrenbrueck (2022):  
“The Liquidity-Augmented Model of Macroeconomic Aggregates: A New Monetarist DSGE Approach”  
*Review of Economic Dynamics* (DOI: 10.1016/j.red.2021.05.002)

Lucas Herrenbrueck (2021):  
“Why a Pandemic Recession Boosts Asset Prices”

*Journal of Mathematical Economics* (DOI: 10.1016/j.jmateco.2021.102491)

Lucas Herrenbrueck (2019):

“Frictional Asset Markets and the Liquidity Channel of Monetary Policy”

*Journal of Economic Theory* (DOI: 10.1016/j.jet.2019.02.003)

Lucas Herrenbrueck, Xiaoyu Xia, Paul Eastwick, and Chin Ming Hui (2018):

“Smart-Dating in Speed-Dating: How a Simple Search Model Can Explain Matching Decisions”

*European Economic Review* (DOI: 10.1016/j.eurocorev.2018.04.001)

Lucas Herrenbrueck (2018):

“Instability of Endogenous Price Dispersion Equilibria: a Simulation”

*Canadian Journal of Economics* (DOI: 10.1111/caje.12355)

#### AWARDS AND GRANTS SINCE 2018

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2023–26	Insight Grant of the Social Sciences and Humanities Research Council
2021–23	Insight Grant of the Social Sciences and Humanities Research Council
2018–21	Insight Grant of the Social Sciences and Humanities Research Council

#### GRADUATE SUPERVISION SINCE 2018

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2024–	Main PhD advisor of Xinhao Dong
2024–	PhD advisor of Mohamed Abubraidaa
2023	External examiner at the PhD defense of Federico Guzman (UBC)
2022–23	Honours thesis of Mehrad Akhavan-Kharazi
2022–25	PhD advisor of Hung Truong
2021–22	PhD advisor of Jorge Martinez
2021–23	PhD advisor of Sadaf Yalinejad
2019–23	Main PhD advisor of Marieh Azizirad (now at the International Monetary Fund)
2019–21	PhD advisor of Zijian Wang (now at Wilfrid Laurier University)
2018–24	Directed readings courses with Marieh Azizirad, Hanif Rashtian, Jorge Martinez, and Xinhao Dong
2018–	Research Assistants Boxi Yang, Marieh Azizirad, and Hung Truong

# CHENYU (SEV) HOU

WMC 2689, Simon Fraser University, 8888 University Dr W, Burnaby, BC V5A 1S6

☎ (+1) 778-898-7371 ✉ [sevhoul989@gmail.com](mailto:sevhoul989@gmail.com) 🌐 [sevhoul.github.io](https://sevhoul.github.io)

## ACADEMIC APPOINTMENT

---

Assistant Professor

**Department of Economics,  
Simon Fraser University**

2024 -

Assistant Professor

**School of Management and Economics,  
Chinese University of Hong Kong (Shenzhen)**

2021 - 2024

## EDUCATION

---

**University of British Columbia**

2015 - 2021

Ph.D. in Economics

**University of Texas at Austin**

2013 - 2015

M.Sc. in Economics

**Simon Fraser University**

2012 - 2013

M.A. in Economics

**Fudan University**

2008 - 2012

B.A. in Economics

## GRANT AND AWARDS

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SME Research Fund, CUHK Shenzhen

2022-2024

CUHKSZ Start-up Grant

2021-2024

President's Academic Excellence Initiative PhD Award, University of British Columbia

2020 - 2021

Li Tze Fong Memorial Fellowship, University of British Columbia

2015 - 2021

## PUBLICATIONS

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**Monetary Policy when the Phillips Curve is Quite Flat**

(with Paul Beaudry and Franck Portier)

*AEJ:Macroeconomics* 16(1):1-28, 2024.

**The Dominant Role of Expectations and Broad-Based Supply Shocks in Driving Inflation**

(with Paul Beaudry and Franck Portier)

*NBER Macroeconomics Annual*, vol 2024

## WORKING PAPERS

---

**Learning and Subjective Expectation Formation: A Recurrent Neural Network Approach**

## **Convergence Across Castes**

*(with Viktoria Hnatkovska and Amartya Lahiri)*

## **Uncovering Subjective Models from Survey Expectations**

*(with Tao Wang)*

## **Urbanization, Structural Transformation and Rural-Urban Disparities in China and India**

*(with Viktoria Hnatkovska and Amartya Lahiri)*

## **On the Fragility of the Nonlinear Phillips Curve View of Recent Inflation**

*(with Paul Beaudry and Franck Portier)*

## **STUDENT SUPERVISION**

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Jiannan Jiang (Master),      Tian Qin (Undergrad),      Siman Liang (Master)

## **WORK IN PROGRESS**

---

### **Reading between Lines: Measuring Narratives from Macroeconomic Texts using LLM**

*(with Jiannan Jian and Tao Wang)*

### **Bounded Rationality in Planning**

*(with Giovanni Gallipoli, Wei Li and Jesse Perla)*

### **Self-fulfilling NKPC**

*(with Zehao Li)*

## **TEACHING**

---

### **Simon Fraser University**

Macroeconomics Theory and Policy (Masters)

*Spring 2025*

Computational Macroeconomics (Undergrads)

*Fall 2024*

### **Chinese University of Hong Kong (Shenzhen)**

Macroeconomics Theory (PhD)

*Fall 2022-2023*

Advanced Macroeconomics (Masters)

*Fall 2021-2023*

Calculus for Economics (Undergrads)

*Fall 2021*

## **PROFESSIONAL ACTIVITIES**

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**Referee:** Economic Journal, JEBO, JEDC, JMCB, Canadian Journal of Economics

## **SKILLS**

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**Programming Languages:** STATA, Matlab, Python, TensorFlow, LATEX, Julia (Basic), R(Basic)

## **REFERENCES**

---

*Prof. Jesse Perla (Supervisor)*  
Associate Professor  
University of British Columbia  
+1 778-990-2912  
jesse.perla@ubc.ca

*Prof. Paul Beaudry*  
Professor  
University of British Columbia  
+1 778-751-1662  
Paul.Beaudry@ubc.ca

*Prof. Paul Schrimpf*  
Associate Professor  
University of British Columbia  
+1 604-822-5360  
schrimpf@mail.ubc.ca

*Prof. Michael Devereux*  
Professor  
University of British Columbia  
+1 604-827-3137  
Michael.Devereux@ubc.ca

February 2024

## Alexander K. Karaivanov

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### Current position

2015 – present      Professor, Department of Economics, Simon Fraser University

### Other professional affiliations

2011 – present      Associate Editor, Journal of Development Economics

2011 – present      Research Associate, ThReD

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### Credentials

2003      PhD Economics, University of Chicago, USA

1999      MA Economics, University of Chicago, USA

1997      BA Economics (summa cum laude), Sofia University, Bulgaria

1997      BBA, Hogeschool van Utrecht, The Netherlands

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### Research interests

development, financial markets and contracts, risk sharing, entrepreneurship, networks, public economics

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### Publications since 2018

#### Articles

“Economic Determinants of Ethereum Transaction Fees in the Priority Fee and Proof of Stake Periods”, Applied Economics 1-19, Nov. 2024 (with S. Zarifian)

“Digital Safety Nets: A Roadmap”, BIS Papers 139, 2023 (with B. Mojon, L. Pereira da Silva and R. Townsend)

“COVID-19 Vaccination Mandates and Vaccine Uptake”, Nature Human Behaviour 6(6), 2022 (with D. Kim, S. Lu and H. Shigeoka), also *NBER Working Paper 29563* and *IZA Working Paper 14946*

“Involuntary Entrepreneurship – Evidence from Thai Urban Data”, World Development 105706, 2022 (with T. Yindok)

“Face Masks, Public Policies and Slowing the Spread of COVID-19: Evidence from Canada”, Journal of Health Economics 102475, 2021 (with S. Lu, H. Shigeoka, C. Chen and S. Pamplona), also *NBER Working Paper 27891*

“Transaction Fee Economics in the Ethereum Blockchain”, Economic Inquiry 13025, 2021 (with A. Donmez)

“A Social Network Model of COVID-19”, PLOS One 15(10): e0240878, 2020

“Credit lines in Microcredit: Short-Term Evidence from a Field Experiment in India”, Journal of Development Economics 146:102497, 2020 (with F. Aragon and K. Krishnaswamy)

“Bogus Joint Liability Groups in Microfinance”, European Economic Review 122:103353, 2020 (with X. Xing and Y. Xue)

“Family Firms, Bank Relationships and Financial Constraints: A Comprehensive Score Card”, International Economic Review 60(2):547-593, 2019 (with J. Saurina and R. Townsend)

“Markov-Perfect Risk Sharing, Moral Hazard and Limited Commitment”, Journal of Economic Dynamics and Control 94:1-23, 2018 (with F. Martin)

“(Dis)Advantages of Informal Loans – Theory and Evidence”, European Economic Review 102:100-128, 2018 (with A. Kessler)

“Non-Grant Microfinance, Incentives and Efficiency”, Applied Economics 50:2509-24, 2018

### **Other publications**

“Face mask mandates slowed the spread of COVID-19 in Canada”, *VoxEU*, 2020 (with S. Lu and H. Shigeoka)

“Criminal Organizations and Networks”, in R. Morgan (ed.), *The SAGE Encyclopedia of Criminal Psychology*, SAGE Publications, 2019 (with S. Easton)

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### **Research grants since 2018**

2024 – present	SSHRC Insight Grant, <i>Digital Finance Platforms and Mechanism Design - Theory, Data and Applications</i> , principal investigator, \$91,990
2024 – present	SFU Chairs and Directors Research Grant, principal investigator, \$5,000
2018 – 2024	SSHRC Insight Grant, <i>Contracts and Markets in the New Digital Economy: Theory, Data Analysis and Policy</i> , principal investigator, \$77,740

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### **Supervision since 2018** (with placement)

#### PhD senior supervisor

- Shayan Zarifian, in progress
- Anil Donmez, 2022, “Essays on computational and empirical methods in financial economics”, consulting
- Shiqu Zhou, 2019, “Three essays on occupational choice, financial market frictions, learning and dynamic incentives”, KPU

#### PhD supervisor

- Matheus Bandeira, in progress
  - Esmail Izadi, in progress
  - Uzair Azmat, in progress
  - Yaser Sattari, 2019, “Essays on firm-level distortions and aggregate productivity”, private sector
  - Duman Bahrami-Rad, 2018, “The origins and consequences of kin networks and marriage practices”, Harvard (post-doc)
-

## KENNETH KASA

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Vancouver, BC V6R 2V7  
Telephone: (604)733-0223 (home)  
(604)291-5406 (office)

Citizenship: Dual USA/Canada  
email: kkasa@sfu.ca

### **Education**

University of California, Berkeley, B.S. (Economics), 1981  
University of Chicago, M.A. (Economics), 1985  
University of Chicago, Ph.D. (Economics), 1988

### **Employment**

Professor, Department of Economics, Simon Fraser University, (Assoc. Prof. 2001-5)  
Visiting Professor, Department of Economics, NYU (Fall 2018, Fall 2019).  
Visiting Professor, Department of Economics, UC Berkeley, 2007-08.  
Senior Economist, Research Department, Federal Reserve Bank of San Francisco, 1993-2000.  
Visiting Lecturer, Haas School of Business, University of California, Berkeley, 1994-98.  
Visiting Assistant Professor of Economics, Department of Economics, University of Pennsylvania, 1990-93.  
Assistant Professor of Economics, Graduate School of Management, Cornell University, 1988-1991.

### **Selected Publications**

"Ambiguity, Information Processing, and Financial Intermediation" (with L. Han and Y. Luo).  
*Journal of Economic Theory* 222, 105922, 2024.

"Risk, Uncertainty, and the Dynamics of Inequality" (with Xiaowen Lei).  
*Journal of Monetary Economics* 94, 60-78, 2018.

"Gresham's Law of Model Averaging" (with In-Koo Cho).  
*American Economic Review* 107, 3589-3616, 2017

"Learning and Model Validation" (with In-Koo Cho).  
*Review of Economic Studies* 82, 45-82, 2015.

"Heterogeneous Beliefs and Tests of Present Value Models" (with T. Walker and C. Whiteman).  
*Review of Economic Studies* 81, 1137-63, 2014.

"Robustness and Information Processing".  
*Review of Economic Dynamics* 9, 1-33, 2006.

"Learning, Large Deviations, and Recurrent Currency Crises".  
*International Economic Review* 45, 141-173, 2004.

"Forecasting the Forecasts of Others in the Frequency Domain."  
*Review of Economic Dynamics* 3, 726-56, 2000.

"Common Stochastic Trends in International Stock Markets".  
*Journal of Monetary Economics* 29, 95-124, 1992

"Adjustment Costs and Pricing-to-Market: Theory and Evidence".  
*Journal of International Economics* 32, 1-30, 1992

## **Grants**

1. "A theoretical treaties of magical economic recoveries" SSHRC Insight Grant, principal investigator, \$120,000, [2020-2025]
2. ".....", NBER Research Grant, co-applicant/co-investigator, \$10,000 [2021-2023]
3. "....." SSHRC Partnership Development Grant, submitted application as collaborator, \$200,000

## Curriculum Vitae

Anke S. Kessler

July 2024

Department of Economics  
Simon Fraser University  
Burnaby, B.C., V5A 1S6, Canada  
e-mail: [akessler@sfu.ca](mailto:akessler@sfu.ca)  
<http://www.sfu.ca/~akessler/>

phone: +1 (778) 782-3443  
fax: +1 (778) 782-5944

### Academic Appointments

Full Professor, Department of Economics  
Simon Fraser University, 2007–to date  
Associate Professor, Department of Economics  
Simon Fraser University, 2003–2006  
Assistant Professor (Wissenschaftliche Assistentin)  
Department of Economics, University of Bonn, 1997–2002

### Administrative Appointments

Department Chair, Department of Economics  
Simon Fraser University, 2021–2024  
Chair, Undergraduate Program, Department of Economics  
Simon Fraser University, 2014–2019

### Other Affiliations

Indigenous Research Institute, Simon Fraser University, *Inaugural Member*, 2012–present  
Association for Economic Research of Indigenous Peoples, *Founding Member*, 2021 - present  
Center of Economics Studies, Munich, *CESifo Fellow*, 2007–present  
Centre for Economic Policy Research (CEPR), *Fellow*, 2006–2020  
Canadian Institute for Advanced Research (CIFAR),  
Institutions Organizations & Growth Program, *Associate*, 2004–2015

## Education

- PhD        Economics, *University of Bonn*, European Doctoral Program, 1996  
 MSc        Economics, *University of Wisconsin – Madison*, 1991.  
 BA        Economics and Social Sciences, *University of Freiburg*, 1990.

## Current Research Interests

Institutions, Development, and Well Being,  
 Indigenous Health and Policy,  
 Political Economy, Fiscal Federalism

## Publications

### *Refereed Journal Articles:*

- “Custom Elections and Local Policies: The Case of Canada’s First Nations”, with Fernando Aragon, *American Economic Review*, P&P, Vol 111, pp 238-242, May 2021.
- “Acculturation, education, and gender roles: evidence from Canada”, with Kevin Milligan, *Oxford Economic Papers*, Vol 73 (2), pp 509-533, April 2021.
- “Property rights on First Nations Reserve Land”, with Fernando Aragon, *Canadian Journal of Economics*, Vol 53, pp 460-495, May 2020.
- “A Friend in Need is a Friend Indeed. Theory and Evidence on the (Dis)Advantages of Informal Loans”, with Alexander Karaivanov, *European Economic Review*, Vol 102, pp 100-128, February 2018.
- “The Architecture of Federations: Constitutions, Bargaining, and Moral Hazard,” with Christoph Lülkesmann and Gordon Myers, *Journal of Public Economics*, Vol 124, April 2015, pp 18-29.
- “Communication in Federal Politics: Universalism, Policy Uniformity, and the Optimal

Allocation of Fiscal Authority," *Journal of Political Economy*, Vol. 122 (4), pp. 766-805, August 2014.

"Land Management on First Nations Reserves: Lawful Possession and its Determinants", with Marena Brinkhurst, *Journal of Aboriginal Economic Development*, Vol 8 (2), pp. 78-95, September 2013.

"Interregional Redistribution and Mobility in Federations: A Positive Approach", with N. Hansen and C. Lessman, *Review of Economic Studies*, Vol. 78(4), pp. 1345-1378, October 2011.

"The Theory of Human Capital Revisited: On the Interaction between General and Specific Investments", with Christoph Lülkesmann, *Economic Journal*, Vol. 116 (514), pp.903-923, October 2006.

"Endogenous Punishments In Agency with Verifiable Ex Post Information", with Christoph Lülkesmann and Patrick Schmitz, *International Economic Review*, Vol. 46 (4), pp. 1207-1231 November 2005.

"Tiebout and Redistribution in a Model of Residential and Political Choice", with Christoph Lülkesmann, *Journal of Public Economics*, Vol 89(2-3), pp. 501-528, February 2005.

"Representative versus Direct Democracy: The Role of Informational Asymmetries", *Public Choice*, Vol. 122(1-2), pp. 9-38, January 2005.

"Optimal Auditing in Hierarchical Relationships", *Journal of Institutional and Theoretical Economics*, Vol. 160(2), pp. 210-231, June 2004.

"Bilateral Bargaining under Non-Verifiable Information", with Christoph Lülkesmann, *Economic Theory*, Vol. 23 (2), pp. 395-410, January 2004.

"Economic vs. Political Symmetry and the Welfare Concern with Market Integration and Tax Competition", with Christoph Lülkesmann and Gordon Myers, *Journal of Public Economics*, 87(5-6), pp. 847-867, May 2003.

"Fiscal Competition, Redistribution, and the Politics of Economic Integration", with Christoph Lülkesmann and Gordon Myers, *Review of Economic Studies*, Vol. 69(4), pp. 899-923, October 2002.

"Monitoring and Productive Efficiency in Public and Private Firms", with Christoph Lülkesmann, *FinanzArchiv*, Vol 58(2), pp.167-187, February 2002.

"(Non-)Existence of Equilibria in Multicommunity Models", with Nico Hansen, *Journal of Urban Economics*, Vol. 50(3), pp. 418-435, November 2001.

"The Political Geography of Tax H(e)avens and Tax Hells", with Nico Hansen, *American Economic Review*, Vol. 91(4), pp. 1103-1115, September 2001.

"Revisiting the Lemons Market", *International Economic Review*, Vol. 42 (1), pp. 25-41, February 2001.

"On Monitoring and Collusion in Hierarchies", *Journal of Economic Theory*, Vol. 91 (2) pp. 280-292, April 2000.

"The Value of Ignorance", *RAND Journal of Economics*, Vol. 29 (2), pp. 339-354, Summer 1998.

#### *Discussion Papers*

"Domestic temptations and international treaties, NBER Discussion Paper #32780, *R&R Journal of Public Economics*, with Bard Harstad, June 2024

"Measuring the impact of vote suppression strategies," *mimeo (under revision)*, Simon Fraser University, with Tom Cornwall, May 2024.

"Externalities in Politicians' Malfeasance: Norms of Corruption", with Gustavo Bobonis and Xin Zhao, *CESifo Discussion Paper # 11715*, February 2025

"Ideologues: Explaining Partisanship and Persistence in Politics", *mimeo (under revision)*, Simon Fraser University, with Benno Bühler, November 2022

#### *Book Reviews*

"The Economics of Contracts - A Primer" by Bernard Salanie (The MIT Press, 1997), *Journal of Economics*, Vol 62, pp. 105-108, January 1998.

"Introduction to Industrial Organization" by Luis M.B. Cabral (The MIT Press, 2000),  
*Journal of Economics*, Vol 78, pp 107-110, January 2003.

#### *Other Publications*

"Income Supports and Indigenous Peoples in B.C.: An Analysis of Gaps and Barriers",  
*Report for the BC First Nations Leadership Council and the BC Ministry of Social  
 Development and Poverty Reduction*, with Jacqueline Quinless, Simon Fraser University, 2022

"Gender Disparity in Faculty Salaries at Simon Fraser University", *Report for the Salary Equity  
 Working Group*, with Krishna Pendakur, Simon Fraser University, 2015

#### **Work in Progress**

"Female earnings after divorce – is there a divorce premium?", with Fernando  
 Aragon and Michele Battisti

"The legacy of residential schools: empirical analysis of the contemporary health,  
 cultural and educational impacts", with Donn Feir

"On the effect of recent changes in US voting laws on voter turnout  
 with Steven Weldon

#### **Academic Awards**

2019            Dean's Medal for Academic Excellence, Faculty of Arts and Social  
 Sciences, Simon Fraser University

2013            The Nora and Ted Sterling Prize in Support of Controversy, Simon Fraser University

#### **Fellowships and Research Grants (last 10 years)**

2024–2026    SSHRC Insight Development Grant. "Understanding female  
 earnings during and after marriage - is there a divorce premium?", Principal Investigator, \$75,000

2024–2025    SSHRC Small Explore Research Grant. "Voter (De-)Mobilization: Assessing the

	Impact of Recent Changes to US States' Election Laws", Principal Investigator, \$ 10,000
2019–2022	BC Ministry of Social Development and Poverty Reduction, "Gap Analysis of Income Supports for Indigenous People", Lead Researcher, \$ 250,000
2015–2020	SSHRC Insight Grant, Social Sciences & Humanities Research Council of Canada, "Institutions, Governance and Well Being: The Case of Canadian First Nations" Principal Investigator, \$ 55,000
2004–2015	Associate Fellowship, Canadian Institute for Advanced Research (CIFAR), Institutions Organizations & Growth Program, \$ 150,000
2012–2014	SSHRC Small Grant, Social Sciences & Humanities Research Council of Canada, "On the Determinants of Trust in the Police", Principal Investigator, \$ 9,000.
2012–2014	Vice President's Research Grant, Simon Fraser University, "Institutions, Governance, and Well Being: An Analysis of First Nations peoples in Canada" Principal Investigator, \$ 8,500.
2010–2012	Research Grant, Metropolis British Columbia (MBC), "The Role of Culture in Fertility and Work Decisions: Evidence from Canadian Immigrants" Principal Investigator, \$11,000.
2010-2013	SSHRC Standard Grant, Social Sciences & Humanities Research Council of Canada, "Government, Institutions and Behavior: Evidence from Federal Grants and Local Governments", co-investigator, with K. Milligan
2007–2011	SSHRC Standard Grant, Social Sciences & Humanities Research Council of Canada, "The Allocation of Fiscal Powers in Federations: An Information Based Approach" Principal Investigator, \$ 30,000.

### **Service to the University, the Profession and the Community (last 10 years)**

#### *Academic Service*

Elected Member of the University Senate, Simon Fraser University, June 2023-present

Member of the Board of Directors, Canadian Economic Association, June 2023-present

Elected Faculty Member, Board of Governors, Simon Fraser University, 2016-2022

Co-Chair, Salary Equity Working Group, Simon Fraser University, 2013-2015

Elected Faculty Member, Senate, Simon Fraser University 2012-2016

President/President elect, Canadian Women Economists Network (CWEN), 2014-2016

Member of the Johnson and Mundell Prize Committee, *Canadian Journal of Economics*, 2012-2014

Member of the Editorial Board, *Canadian Journal of Economics*, 2007-2011

Associate Editor, *Journal of Economics*, 2004-2014

Co-Editor, *Economics: The Open-Access, Open Assessment E-journal*, 2007-2016

Member of the Editorial Board, *Review of Economic Studies*, 2001-2003

Referee for Academic Journals: *American Economic Review*, *American Political Science Review*

*Economic Journal*, *Econometrica*, *International Economic Review*, ,

*Journal of Economic Theory*, *JITE*, *Journal of Political Economy*, *Journal of Public Economics*

*Journal of Urban Economics*, *RAND Journal of Economics*, *Review of Economic*

*Studies*, *Review of Economics and Statistics*, *Scandinavian Journal of Economics*,

*Social Choice and Welfare*, *Quarterly Journal of Economics*.

Referee for Granting Agencies:

SSHRC Insight Grants, Deutsche Forschungsgemeinschaft (German Research Foundation),

Marie Curie Fellowships (EU)

#### *Public Service*

Graham Lecture, University of Dalhousie, "Understanding Political Polarization: Causes, Consequences, and Remedies, with an Outlook for Canada", November 2024

SFU Public Lecture Series on Aboriginal Issues, "Private Property Rights on Reserve Land: Can we expect a de Soto Effect?" , 2016

Expert Panelist, Election Day in Canada, Open Cinema Event, 2015

Expert, Elections Canada Roundtable, Issues arising from improper communications with electors, organized by Institute for Research in Public Finance, Montreal, 2015

#### **Academic Presentations and Invited Talks (last 10 years)**

2024            European Economic Association/Econometric Society, Rotterdam, Netherlands

- German Economic Development Conference (GDE), Hanover Germany  
Massachusetts Institute of Technology, Cambridge, US
- 2023 Econometric Society Africa Meeting, Nairobi, Kenya  
European Economic Association, Barcelona, Spain  
Conference of the Society for Institutional & Organizational Economics, Frankfurt, Germany  
University of Victoria, Victoria, Canada
- 2022 Canadian Economics Association Annual Meeting, Ottawa, Canada  
Verein fuer Socialpolitik Annual Conference, Basel, Switzerland  
Rheinische Friedrich-Wilhelm University of Bonn, Bonn, Germany
- 2020 Albert-Ludwigs University of Freiburg, Freiburg, Germany  
International Institute of Public Finance (IIPF) Congress, online  
European Economic Association Annual Meeting, online
- 2019 Workshop on Indigenous Economics, Hoover Institution, Stanford University, USA  
Canadian Economics Association Annual Meeting, Banff, Canada
- 2018 Development Economics and Policy Conference, University of Zurich and ETH  
Workshop on Indigenous Economics, University of Victoria, Victoria, Canada
- 2017 Verein für Socialpolitik Annual Conference, Vienna, Austria
- 2016 Public Economic Theory Conference. Rio de Janeiro, Brazil  
SAET Conference, Rio de Janeiro, Brazil  
Canadian Economic Association Annual Meeting, Ottawa, Canada
- 2015 Annual Conference of the European Economic Association, Mannheim, Germany  
Rheinische Friedrich-Wilhelm University of Bonn, Bonn, Germany  
CHWEN International Workshop, Chinese Agricultural University, Beijing, China
- 2014 Workshop on Political Economy, UQUAM and HEC, Montreal, Canada  
Annual Conference of the Canadian Economic Association

## Teaching and Supervision

### *PhD Supervision at SFU:*

Christoph Eder, primary supervisor, PhD, completed Spring 2014

Georgi Boichev, joint supervisor, PhD, completed Summer 2013

Ross Hickey, primary supervisor, Ph.D., completed Fall 2008

### *Graduate Courses at SFU:*

Political Economics

Microeconomic Theory III

PhD Field Paper

### *Undergraduate Courses at SFU:*

Microeconomics II: Strategic Behavior

Advanced Microeconomics (Honours)

### *Summer Schools:*

Central-German Doctoral Program in Economics, "Advanced Microeconomics", Summer 2017, Halle.

Central-German Doctoral Program in Economics, "Advanced Microeconomics", Summer 2012, Dresden.

Bavarian Graduate Program in Economics, Course Module "Frontiers in Microeconomics", 2007, Munich

German Research Foundation Summer School "Fiscal Federalism", 2007, Bonn

Center for European Integration Summer School "Fiscal Federalism"  
2004, Bonn

# DONGWOO KIM

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Department of Economics, West Mall Centre, SFU  
8888 University Drive Burnaby, BC Canada, V5A 1S6

## CURRENT APPOINTMENT

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### **Simon Fraser University**

Assistant Professor, Department of Economics  
(on parental leave Oct 2020 - May 2021)

*2019-present*

## EDUCATION

---

### **University College London**

#### **PhD in Economics**

*2015-2019*

Thesis Title: Essays on Partially Identifying Models and Their Applications

Supervisors: Andrew Chesher, Toru Kitagawa

Examiners: Dennis Kristensen, Gerard Van den Berg

#### **MRes in Economics (Distinction)**

*2014-2015*

#### **MSc in Economics (Distinction)**

*2013-2014*

### **Seoul National University**

#### **BA in Economics**

*2003-2007*

## PREVIOUS EXPERIENCES

---

Economist, *Economic Research Institute*, Bank of Korea

*2019*

Cemmap Scholar, Institute for Fiscal Studies

*2017-2019*

1st Lieutenant, Republic of Korea Army

*2007-2009*

Junior Economist, *International Department*, Bank of Korea

*2007-2013*

(on leave 2007-2009 for military service)

## RESEARCH AND TEACHING INTERESTS

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Microeconometrics, Applied Econometrics, Health, Labour and Empirical IO

## PUBLICATIONS

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“Nonparametric Estimation of Sponsored Search Auctions and Impacts of Ad Quality on Search Revenue”

with Pallavi Pal (Stevens Institute of Technology), *Management Science* (forthcoming)

“Powerful t-Tests in the Presence of Nonclassical Measurement Error”

with Daniel Wilhelm (LMU Munich), *Econometric Reviews* (2024), 1-34

“IV Methods for Tobit Models”

with Andrew Chesher (UCL) and Adam Rosen (Duke University), *Journal of Econometrics*, Volume 235, Issue 2, August 2023, pages 1700-1724

“Partially Identifying Competing Risks Models: an Application to the War on Cancer”

*Journal of Econometrics*, Volume 234, Issue 2, June 2023, Pages 536-564

“COVID-19 Vaccination Mandates and Vaccine Uptake”

with Alexander Karaivanov (SFU), Shih En Lu (SFU) and Hitoshi Shigeoka (U of Tokyo), 2022, *Nature Human Behaviour*, 6, 1615–1624

“Vaccination Strategies and Transmission of COVID-19: Evidence Across Advanced Countries”

with Young Jun Lee (Korea Institute of International Economic Policy), 2022, *Journal of Health Economics*, Volume 82, 102589

“An Adaptive Test of Stochastic Monotonicity”

with Denis Chetverikov (UCLA) and Daniel Wilhelm (LMU Munich), 2021, *Econometric Theory*, Volume 37, Issue 3, pp. 495 - 536

“Partial Identification in Nonseparable Count Data IV Models”

2020, *Econometrics Journal*, 23(2), pp.232-250

“Nonparametric Instrumental-Variable Estimation”

with Denis Chetverikov (UCLA) and Daniel Wilhelm (LMU Munich), 2018, *Stata Journal*, Volume 18 Number 4: pp. 937-950

## WORKING PAPERS

---

“Semi-nonparametric Models of Multidimensional Matching: an Optimal Transport Approach”

with Young Jun Lee (Korea Institute for International Economic Policy), *submitted*

“Point-Identifying Semiparametric Sample Selection Models with no excluded variable”

with Young Jun Lee (Korea Institute for International Economic Policy), *submitted*

## TEACHING EXPERIENCE

---

### Instructor (Simon Fraser University):

BA Statistical Analysis of Economic Data

2019, 2021-present

BA Econometric Methods (honours course)

2021-present

PhD Econometrics II

2020-present

### Graduate Supervision (Simon Fraser University):

Jeff Hsieh (PhD Economics, committee member)

*in progress*

Wenqian Sun (PhD Economics, committee member)

2023

Xiaolin Sun (PhD Economics, committee member)

2022

Fatima Sajid (MA Economics)

2022

### Teaching Assistant (University College London):

MRes/PhD Econometrics

2016-2019

MSc Advanced Microeconometrics

2016-2017

MSc Macroeconomics for Policy

2016-2017

BSc Statistical Methods in Economics

2015-2017

BSc Introduction to Mathematics for Economics II

2015-2016

## GRANT, HONOURS, SCHOLARSHIPS, AND FELLOWSHIPS

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VPR Travel Grant (\$2,000), Simon Fraser University

2024

SSHRC Insight Grant (PI, \$88,715)

2024-2027

SFU FASS Kickstarter Seed Grant (PI, \$7,191)

2024-2026

SFU/SSHRC Small Explore Research Grant (PI, \$7,000)

2022-2024

SSHRC Insight Development Grant (PI, \$60,651)

2022-2024

VPR Travel Grant (\$1,844), Simon Fraser University

2022

New Faculty Start-up Grant (\$20,000), Simon Fraser University	2019
Conference Grant, Royal Economic Society	2018
Departmental Postgraduate Research Student Fund, University College London	
Excellence in Teaching Award (MRes/PhD module), University College London	
Departmental Travel Grants for ENTER, University College London	
Excellence in Teaching Award (MSc core module), University College London	2017
Student Travel Award, European Economic Association	
PhD Financial Assistance, Royal Economic Society	
Ricardo Scholarship, University College London	2015-2019
WM Gorman Scholarship, University College London	2014-2015
Overseas Academic Training Scholarship, Bank of Korea	2013-2015
Second Prize, Best economic essay competition, Bank of Korea	2012
First prize, Best working paper competition, Bank of Korea	2010
Full Scholarship, Seoul National University	2003-2007

## SEMINAR PRESENTATIONS

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Seoul National U., Kyung Hee U., Sogang U., U. of Calgary, Northwestern U.	2024
Michigan State U.	2023
Sogang U., Seoul National U., UCLA	2022
Korea-America Economic Association (KAEA) Virtual Seminar	2021
UNSW	2020
U. of Surrey, SFU, KDI, KIPF, U. of Nebraska-Lincoln, U. of Seoul	2019
Stockholm U., UCL, IFS	2018
LSE, UCL	2016

## CONFERENCE PRESENTATIONS

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Allied Social Science Associations (ASSA) Annual Meeting, San Francisco, California	2025
CIREQ Econometrics Conference: Recent Developments in Identification and Inference, Montreal	
Canadian Economic Association Annual Conference, UQAM, Montreal	
Korean Economic Review International Conference, Pyeongchang, Korea	2024
The 31st SJE International Symposium, Seoul National University, Korea	
UCL Economics Alumni Conference, London, UK	
Western Economic Association Annual Conference, Seattle, Washington	
Canadian Econometrics Study Group Meeting (poster), Toronto, Canada	
IAAE Annual Conference, Bi Norwegian Business School, Oslo, Norway	2023
Asian Meeting of Econometric Society, Nanyang Technical University, Singapore	
EcoSta2023 (invited session), Waseda University, Tokyo, Japan	
Econometrics Society European Meeting, Barcelona School of Economics, Spain	
Canadian Econometric Study Group Meeting, McMaster University, Hamilton, Ontario	
IAAE Annual Conference, King's College London, UK	2022
Asian Meeting of Econometric Society, Keio University, Tokyo, Japan	
Cemmap/SNU Workshop on Advances in Econometrics, Seoul National University, Korea	
Southern Economic Association Conference (invited session), Fort Lauderdale, Florida	
Canadian Econometrics Study Group Meeting (presentation), UBC, Vancouver, BC	2021

Korean Econometric Society Summer Meeting, Sogang University, Korea	<i>2019</i>
Young Economist Workshop, Yonsei University, Korea	
Microeconometrics Class of 2019 Conference, Duke University, Durham, North Carolina	
Canadian Econometrics Study Group Meeting (poster), Montreal, Quebec	
Midwest Econometrics Group Meeting, University of Wisconsin - Madison	<i>2018</i>
Bristol Econometric Study Group Annual Conference, University of Bristol, UK	
PhD Summer Conference, University College London, UK	
ENTER Jamboree, Toulouse School of Economics (discussant), France	
Royal Economic Society Symposium of Junior Researchers, Brighton, UK	
Annual Congress of European Economic Association, Lisbon, Portugal	<i>2017</i>
Cemmap Conference “Advances in econometrics”, Shanghai, China	
PhD Summer Conference, University College London, UK	
Royal Economic Society Symposium of Junior Researchers, Bristol, UK	
Royal Economic Society Annual Conference, Bristol, UK	

## SERVICES

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### Simon Fraser University:

Appointments Committee	<i>2024-2025</i>
Computing Committee	<i>2023-2025</i>
Tenure and Promotion Committee	<i>2022-2023</i>
Graduate Program Admission Committee	<i>2021-2022</i>
Brownbag Seminar Committee	<i>2020-2021</i>
Seminar Committee	<i>2019-2020</i>

### Referee:

American Economic Review, Review of Economics and Statistics, Journal of Business and Economic Statistics, Journal of Applied Econometrics, Econometric Theory, Econometrics Journal, Econometric Reviews, American Journal of Health Economics, Health Economics, American Journal of Preventive Medicine, Frontiers in Public Health, Stata Journal, Asia-Pacific Journal of Financial Studies

### Korea-America Economic Association:

Micro Virtual Seminar Series Organizer	<i>2023-present</i>
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### Public Lecture:

Vancouver Brownbag Seminar Forum, invited lecture	<i>2023</i>
Korean Consulate in Vancouver, invited brownbag seminar	<i>2022</i>
Korean Businessmen’s Co-op Association of BC, invited lecture	<i>2022, 2023</i>

## PERSONAL INFORMATION

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Date of birth: 1984/Dec/28  
Gender: Male  
Citizenship: South Korea, Canadian Permanent Resident  
Marital Status: Married with two children  
Languages: English (fluent), Korean (native)  
Programming: R/Rcpp, C++, Matlab, Stata/Mata, EViews, L<sup>A</sup>T<sub>E</sub>X

# John Knowles

Department of Economics  
Simon Fraser University  
Burnaby, B.C. V5A 1S6

[jaknowle@sfu.ca](mailto:jaknowle@sfu.ca)

Citizenship: Canadian and British (UK)

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## Appointments

- Professor, Department of Economics, Simon Fraser University, since August 2016
- Associate Professor, Department of Economics, Simon Fraser University, August, 2014 – August 2016
- Professor, Department of Economics, University of Southampton. July, 2008- July 2014
- Assistant Professor, Department of Economics, University of Pennsylvania, 1998-2008.

## Education

- **Ph.D.** (Economics), University of Rochester, NY , 1999.
- **B.A.** (Economics), Simon Fraser University, BC, Canada May 1983

## Manuscripts

- “Matching for Social Mobility with Unobserved Heritable Characteristics”. With Chris Bidner.(SFU) Revising for *International Economic Review*.
- “Unmarried Births: Accounting and Equilibrium Analysis”. With John Kennes (Aarhus). Second round at *Review of Economic Dynamics*.
- “Future Orientedness” joint with A. Postlewaite. Presented at U. Autonomia de Barcelona, 2021.
- “Meritocracy and Marital Sorting”. Presented at University of Western Ontario, 2017
- “Birth Control and the Rise in Female LFP: What Can We Learn from Women's Occupational Choices?” presented at Queen’s University, 2016

## Publications

- [Fertility Shocks and Equilibrium Marriage-Rate Dynamics](#) (joint with Guillaume Vandenbroucke). *International Economic Review* 60(4) November 2019
- [Why are Married Men Working So Much?](#) *Review of Economic Studies* (2013)
- [Why is the Rate of Single Parenthood Lower in Canada than in the U.S.? A Dynamic Equilibrium Analysis of Welfare Policies.](#) (Joint with Nezih Guner). *Canadian Journal of Economics*, 42 (1), 56-89, February 2009. (See Harry Johnson prize below)..
- [Why is Child Labor Illegal?](#) 2008. (Joint with Sylvain Dessy), *European Economic Review*, Elsevier, vol. 52(7), pages 1275-1311 .
- [Crime Minimization and Racial Bias: What Can We Learn From Police Search Data?](#), 2006 (joint with Jeff Dominitz), *Economic Journal*, vol. 116, no. 515, pp. F368-84.
- [Love and Money: A Theoretical and Empirical Analysis of Household Sorting and Inequality](#), 2005. (Joint with Raquel Fernández and Nezih Guner) . *Quarterly Journal of Economics* Vol. 120, Issue 1 - February 2005. pp. 273 - 344
- [Racial Profiling or Racist Policing? Testing in Aggregated Data](#), 2004 (joint with R. Hernandez). *International Economic Review*, Vol. 45 (3) pp 959-989
- [More on Marriage, Fertility and the Distribution of Income](#), 2003 (joint with J. Greenwood and N. Guner). *International Economic Review*, Vol. 44(3) pp 827-862.
- [Why do Women Wait? Matching, Wage Inequality and Incentives for Fertility Delay](#), (joint with E. Caucutt and N. Guner). *Review of Economic Dynamics*, Vol. 5 (4). p 815-55. October 2002.
- [Racial Bias in Motor Vehicle Searches: Theory and Evidence](#), 2001 (joint with N. Persico and P. Todd). *Journal of Political Economy*, February.
- [Women on Welfare: A Macroeconomic Analysis](#), 2000 (joint with J. Greenwood and N. Guner). *American Economic Review*, Papers and Proceedings.

## Funding & Awards

- 2018-2022 Principal Investigator *SSHRC insight grant* : (435-2018-0111) “Meritocracy, Genetics and Marital Sorting”
- 2010 [\*Harry Johnson Prize\*](#) (Canadian Economics Association) for best article in Canadian Journal of Economics in 2009.
- 2006 Penn *University Research Fund Award*. “Can Household Bargaining Explain Trends in Divorce and Household Labor Supply?”
- 2004 TIAA-CREF Institute Grant Program Award: “What Explains Parental Influences on Savings?”
- 2003-2004 *PARC/Boettner Pilot Award*: “Savings and Health Behavior over the Lifecycle and across Generations 1998-1999 *PARC Pilot Award*: “Aging and the Financial Security of Women”.
- 2000-2001. NSF grant #SES-0079327. Project title: “Understanding Child Labor Laws”.
- 1999-2000. Research support from "NIA/NIH grant no. AG12836", Beth Soldo, Principal Investigator.

## Supervising Experience

*Simon Fraser University*

- *PhD Dissertation Supervisor*:  
Yaser Sattari: 2015-2018  
Yang Li: 2017-2021 (co-supervisor with Ken Kasa).  
Hanif Rashtian 2020-2022

*University of Southampton:*

- Supervisor:
  - PhD Students, 2009-2012
    - Luis Pinedo Caro:
      - Affirmative-action and job-market discrimination
    - Orphe Divonguay
      - Search models of marriage and education.
    - Marcos Gomez Mella
      - Search models of youth unemployment
    - Panagiotis Giannarakis
      - Productivity and worker flows
  - MSc Student Dissertations, 2009-2014
  - BSc Student Dissertations, 2009-2014

# Brian Krauth

## Current Position

2006 – present: Associate Professor, Simon Fraser University

## Credentials

University of Wisconsin, Madison WI

MA in Economics, 1995

PhD in Economics, 1999

Thesis title: *Social Interactions and Aggregate Neighborhood Outcomes*

Thesis committee: Steven N. Durlauf (chair), William A. Brock, Jonathan A. Parker.

## Research Interests/fields

Labor economics, economics of education, applied econometrics.

## Publications since 2018

Friesen, Jane, Brian Krauth, and Brett Wilmer, 2024. “COVID-19 and the mental health of adolescents in British Columbia.” *Canadian Public Policy* 50(2): 256-276.

Javdani, Mohsen and Brian Krauth, 2020. “Job satisfaction and co-worker pay in Canadian firms.” *Canadian Journal of Economics* 53(1): 212-248.

## Grants since 2018

Faculty of Social Sciences Chair’s Research Grant (internal), 2016-2021. Principal investigator, total funding \$15,000.

## Graduate Supervision since 2018

Dian Hong, PhD committee member. In progress, expected completion 2025-26.

## Kevin Laughren

<http://www.kevinlaughren.com>

+1 778 867 7399 | [kevinlaughren@gmail.com](mailto:kevinlaughren@gmail.com) | [klaughre@sfu.ca](mailto:klaughre@sfu.ca) | Citizenship: Canada

### Current Position

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2024 - 2025     Lecturer, Simon Fraser University, Department of Economics  
                    Designed new course: ECON484 Applied Machine Learning for Economics (2025)  
                    ECON455W Seminar in Development Economics (2024)  
                    ECON342 International Trade (2024)

### Credentials

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2016 – 2021     Simon Fraser University – Ph.D, Economics  
2014 – 2015     California Institute of Technology – Master of Science, Social Sciences  
2012 – 2013     University of Calgary – Master of Arts, Economics  
2004 – 2008     Queen’s University, Smith School of Business – Bachelor of Commerce

### Research Interests/fields

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Experimental economics, behavioural economics, machine learning in economics.

### Publications since 2018

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Freeman, David J., and Kevin Laughren, Forthcoming. "Task Completion Without Commitment." *Experimental Economics*. [http://kevinlaughren.com/wp-content/uploads/2024/03/TaskCompletionWithoutCommitment\\_Feb2024.pdf](http://kevinlaughren.com/wp-content/uploads/2024/03/TaskCompletionWithoutCommitment_Feb2024.pdf)

Kimbrough, Erik, Kevin Laughren, and Roman Sheremeta, 2020. "War and Conflict in Economics: Theories Applications and Recent Trends." *Journal of Economic Behavior and Organization*. <https://doi.org/10.1016/j.jebo.2017.07.026>

### Grants since 2018

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2023             Queen’s University Fund for Scholarly Research (Adjuncts)  
2020 – 2021     Peter Kennedy Memorial Fellowship (\$27,000)  
2014 – 2018     SSHRC Bombardier Graduate Fellowship (\$80,000)  
2016 – 2020     SFU Graduate Fellowship (\$19,500)  
2016 – 2018     Provost Prize of Distinction (\$13,333)

### Graduate Supervision since 2018

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None

# Shih En Lu

shihenl@sfu.ca

Department of Economics, Simon Fraser University  
8888 University Drive, Burnaby BC V5A 1S6, Canada

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## EMPLOYMENT

2017/9–present	Associate Professor of Economics, Simon Fraser University	Burnaby, BC
2011/9–2017/8	Assistant Professor of Economics, Simon Fraser University	Burnaby, BC

## EDUCATION

May 2011	Ph.D., Economics, Harvard University	Cambridge, MA
	<ul style="list-style-type: none"><li>Dissertation Title: <i>Strategic Communication and Bargaining</i></li><li>Committee: Attila Ambrus (main advisor), Drew Fudenberg, Jerry Green</li></ul>	
March 2008	A.M., Economics, Harvard University	Cambridge, MA
June 2006	A.B. <i>summa cum laude</i> , Economics, Harvard College	Cambridge, MA

## FIELDS OF RESEARCH

Game theory, Microeconomic theory

## PUBLICATIONS SINCE 2018

“COVID-19 Vaccination Mandates and Vaccine Uptake” (with Alex Karaivanov, Dongwoo Kim, Hitoshi Shigeoka)  
*Nature Human Behaviour* 6, 2022, 1615-1624.

“Face Masks, Public Policies and Slowing the Spread of COVID-19: Evidence from Canada” (with Alex Karaivanov, Hitoshi Shigeoka, Cong Chen, Stephanie Pamplona)  
*Journal of Health Economics* 78, 2021: 102475.

## PH.D. SUPERVISION SINCE 2018

Dian Hong (in progress)

# Christoph Luelfesmann

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March 2025

## CURRENT POSITION

Professor  
Department of Economics  
Simon Fraser University  
8888 University Drive  
Burnaby, BC V5A 1S6  
Canada

[cluelfes@sfu.ca](mailto:cluelfes@sfu.ca)

[www.sfu.ca/~cluelfes](http://www.sfu.ca/~cluelfes)

phone: 778 782 8504

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## PREVIOUS POSITIONS

2003-2008	Associate Professor, SFU Economics
1996-2002	Assistant Professor (Wissenschaftlicher Assistant), University of Bonn, Economics
1998-1999	Research Scholar, UC Berkeley, Haas School of Business
1992-1996	Scientific Employee (Wissenschaftlicher Mitarbeiter), Univ of Bonn, Economics
1982-1985	Internal Revenue Service, Germany

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## EDUCATION

2002	Habilitation in Economics, University of Bonn, Germany
1996	PhD Economics (Dr. rer. pol.), University of Bonn, Germany
1991	Master in Economics (Diplom-Volkswirt), University of Bonn, Germany
1985	Master in Tax Law and Administration (Diplom-Finanzwirt), FHF Nordkirchen, Germany

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## RESEARCH INTERESTS

Applied Microeconomics and Public Economics: Agency theory, Theory of the Firm, Federalism, Taxation, Regulation.

## PUBLISHED WORK

“Agent Authority and Screening in a Principal Agent Model,” *Journal of Economic Behavior and Organization*, 231, March 2025 (lead article).

“Strategic Shirking in Bilateral Trade,” *Scandinavian Journal of Economics*, 123(4), 1292-1313, 2021.

“Reforming an Asymmetric Union: On the Virtues of Dual Tier Capital Taxation,” (with A Haufler), *Journal of Public Economics*, Vol 125, 11-127, 2015.

“The Architecture of Federations: Constitutions, Bargaining, and Moral Hazard” (with A Kessler and G Myers), *Journal of Public Economics*, Vol 124, 18-29, 2015.

“Two-Tier Public Provision: Comparing Public Systems,” (with Gordon Myers), *Journal of Public Economics*, Vol. 95 (11-12), 1263-1271, 2011.

“On the Virtues of Privatization when Government is Benevolent”, *Journal of Economic Behavior and Organization*, 64(1), 17-34, 2007.

“The Theory of Human Capital Revisited: On the Interaction of General and Specific Investments,” (with Anke Kessler), *Economic Journal*, 116(514), 903-923, 2006.

“Wealth Constraints and Option Contracts in Models with Sequential Investments,” *RAND Journal of Economics*, 36(4), 753-770, 2005.

“Endogenous Punishments In Agency with Verifiable Ex Post Information,” (with Anke Kessler and Patrick Schmitz), *International Economic Review*, 46(4), 1207-1231, 2005.

“Tiebout and Redistribution in a Model of Residential and Political Choice,” (with Anke Kessler), *Journal of Public Economics*, 89, 501-528, 2005.

“Research Collaborations with Sequential Investments,” *Economica*, 71(2), 241-260, 2004.

“Bargaining under Non-Verifiable Information,” (with Anke S. Kessler), *Economic Theory*, 23(2), 395-410, 2004.

“Economic vs. Political Symmetry and the Welfare Concern with Market Integration and Tax

Competition," (with Anke S. Kessler and Gordon Myers), *Journal of Public Economics*, 87(5-6), 847-867, 2003. (lead article)

"Fiscal Competition, Redistribution, and the Politics of Economic Integration," (with Anke S. Kessler and Gordon Myers), *Review of Economic Studies*, 69(4), 899-923, 2002.

"Central Governance or Subsidiarity: A Property Rights Approach to Federalism," *European Economic Review*, 46(8), 1379-1397, 2002.

"Partial Monitoring, Adverse Selection, and the Productive Efficiency of the Firm," *International Journal of Industrial Organization*, 20(8), 1097-1118, 2002.

"Monitoring and Productive Efficiency in Public and Private Firms," (with Anke S. Kessler), *FinanzArchiv*, 58(2), 167-187, 2002.

"Team Production, Sequential Investments, and Stochastic Payoffs," *Journal of Institutional and Theoretical Economics*, 157(3), 430-442, 2001.

"Incomplete Contracts, Non-Contractible Quality, and Renegotiation", *Contributions to Theoretical Economics*, 1 (1), Article 2, 1-46, 2001.

"The Hold-up Problem in Government Contracting," (with Dieter Boes), *Scandinavian Journal of Economics*, 98(1), 53-74, 1996.

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## WORK UNDER REVIEW

"Voluntary Equity, Project Risk, and Capital Requirements in Banking," (with Andreas Haufler), CESifo working paper 2024, submitted to *Journal of International Money and Finance*.

"Dual Provision of Public Goods in Democracy," working paper 2024, submitted to *Journal of Public Economics*,

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## FURTHER WORKING PAPERS/WORK IN PROGRESS

"Delegation without Communication," (with Shora Ebrahimi), mimeo, April 2023.

“Incentive Contracts, Ownership, and Accounting Manipulation”, mimeo, February 2024.

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## GRANTS AND RESEARCH STAYS

Social Sciences and Humanities Research Council of Canada (SSHRC), (Standard research grant, Principal Investigator, 2011-2015)

Social Sciences and Humanities Research Council of Canada (SSHRC), (Standard research grant, Principal Investigator, 2005-2009)

SFU President's Grant (Simon Fraser University), 2003-2005

German Research Foundation (DFG) SFB 303 Fellowship (University of Bonn), 1992--1999

German Academic Exchange Service (DAAD) Fellowship, 1998-99

Visiting Fellow, CESifo, University of Munich, April-July 2007, March 2019.

Visiting Researcher, Dept. of Economics, University of Bonn, Jan. - March 2007

Short-term Visitor, IDEI Toulouse, September 2001

Short term Visitor, University of Constance, 2001 and 2002

Short-term Visitor, Simon Fraser University, Vancouver, 1999 and 2001 Visiting

Scholar, University of California Berkeley, Aug. 1998-- July 1999

Ruhr Gas Visiting Fellowship, University of Bergen, Norway, 1995.

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## TEACHING

### Undergraduate

Public Economics: Taxation (Econ 393, SFU): Spring 2025-.

Intermediate Microeconomics: Competitive Behavior (Econ 201/301, SFU): Spring 05-now.

Industrial Organization (Econ 325, SFU): Fall 03-now.

IO: Governance and Institutions (Econ 426, SFU): Fall 06-now.

IO: Imperfect Competition (Econ 425, SFU): Fall 07-now.

Special Topics in Labor Economics (Econ 483, SFU): Fall 03-04.

Introduction to Game Theory (SFU-Surrey), Fall 08.  
Fiscal Federalism (U Bonn), Winter 97/98, 2000/01.  
Personnel Economics (U Constance), Summer 2001, 2002  
Transition Economics (seminar course) (Bonn): Winter 96/97.  
International Tax Competition (seminar course, Bonn): Winter 2000/01. Political  
Economics (seminar course, Bonn): Winter 01/02, Summer 02.

### Graduate

Applied Contract Theory (Econ 826, SFU): Spring 03-now.

Governance and Institutions (East German Grad Program Summer School, Dresden), Summer 2019.

PhD Seminar (Econ 900, SFU): 2009-2011, 2017-2018.

Theory of Federalism – Graduate (German Research Foundation (DFG) Summer School, Spring 2007.

Contract Theory (Bavarian Graduate Program in Economics Summer School), Spring 2007.

Contract Theory with Applications -PhD (UC Berkeley), Spring 99.

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### PROFESSIONAL ACTIVITIES

Associate Editor for Berkeley Electronic Journal for Theoretical Economics (2006-2011)

Associate Editor for Canadian Journal of Economics (2010-2014)

### Ad hoc Referee for

American Economic Review, Berkeley Electronic Journals in Theoretical Economics, Berkeley Electronic Journals of Economic Policy and Analysis, Canadian Journal of Economics, Economica, Economic Inquiry, Economic Journal, Economics of Governance, Economics Letters, European Economic Review, European Journal of Political Economy, FinanzArchiv, International Economic Review, International Journal of Industrial Organization, International Tax and Public Finance, Journal of Economics/Zeitschrift fuer Nationaloekonomie, Journal of Economic Behavior and Organization, Journal of Economics and Management Strategy, Journal of Economic Surveys, Journal of Economic Theory, Journal of Health Economics, Journal of Institutional and Theoretical Economics, Journal of Political Economy, Journal of Population Economics, Journal of Public Economics, Journal of Public Economic Theory, Journal of Urban Economics, Labour Economics, Quarterly Journal of Political Science, RAND Journal of Economics, Regional Science and Urban Economics, Review of Economic

Studies, Review of Accounting Studies, Routledge Publishers, Social Sciences and Humanities Research Council of Canada (SSHRC), Scandinavian Journal of Economics, Springer Publishers, Zeitschrift fuer Wirtschafts- und Sozialwissenschaften.

Departmental and University Service (SFU)

SFU SIG grant adjudication committee, 2021-23.

SFU Senate (and member of SCAR committee): June 2017-2020.

Seminar Coordinator, SFU, Department of Economics, 2006/07, 2010/11, 2018/19.

Graduate Program Chair, Department of Economics, SFU, 2009-2011, 2017-18.

Tenure and Promotions Committee, SFU, Department of Economics, 2008/09, 2016/17, 22/23.

Graduate Admissions Committee, SFU, Department of Economics, 2003/04, 04/05, 11/12, 12/13, 13/14, 14/15, 15/16, 16/17, 23/24, 24/25).

Recruitment Committee, SFU, Department of Economics, 2003/04 and 2005/06.

Graduate Program Committee, SFU, Department of Economics, 2004/05, 2011/12, 2014/15.

Undergraduate Program Committee, SFU, Department of Economics, 2007/08.

# **Curriculum Vita**

## **Steeve Mongrain**

February, 2024

Associate Dean, Research and International  
Faculty of Art and Social Science  
Professor, Department of Economics  
Department of Economics  
Simon Fraser University  
8888 University Drive  
Burnaby, BC, V5A 1S6  
Canada

Phone: 778-782-9982  
mongrain@sfu.ca

Citizenship: Canadian  
Languages: French and English

### **Fields Research**

Public Economics; Law and Economics; Urban Economics.

### **Education**

Ph.D., Economics, Queen's University, Canada, 1998.  
M.Sc., Sciences économiques, Université Laval, Canada, 1994.  
B.Sc., Sciences économiques, Université Laval, Canada, 1993.

### **Employment**

Professor, Department of Economics, Simon Fraser University, Canada, 2012–current.  
Associate Professor, Department of Economics, Simon Fraser University, 2006–2012.  
Assistant Professor, Department of Economics, Simon Fraser University, 1999–2006.  
SSHRC Post-Doctorate, Department of Economics, University of Illinois, USA, 1998–1999.

### **Administrative Duties**

RIIM Economic Domain Leader (Metropolis), 2003–2006.  
Associate Chair, Department of Economics, 2011–2016.  
Member of Senate, 2014–2016.  
Director and Treasurer, SFUFA, 2016–2022.  
Undergraduate Chair, Department of Economics, 2020–2021.  
Associate Dean, Research and International, FASS, 2022–

## Research Contributions

### Publications

- Mongrain, S., J. D. Oh and T. Van Ypersele (2023) “Tax Competition in Presence of Profit Shifting,” *Journal of Public Economics*, **224**, 11 pages.
- Decreuse, B., S. Mongrain and T. Van Ypersele (2022) “The allocation of property crime and private protection within cities: theory and evidence”, *Economic Inquiry* **60**, 1142-1163.
- Hickey, R., S. Mongrain, J. Roberts and T. Van Ypersele (2020), “Private Protection and Public Policing,” *Journal of Public Economic Theory* **23**, 5–28.
- Cuff K., S. Mongrain and J. Roberts (2020), “Evasion of Fiscal and Labour Regulations: Firm Behaviour and Optimal Tax Policy,” *Journal of Public Economic Theory* **22**, 69–97.
- Mongrain, S. and J.D. Wilson (2018), “Tax competition with heterogeneous capital mobility,” *Journal of Public Economics*, **167**, 177-189.
- Deck, C., E.O. Kimbrough and S. Mongrain (2014), “Paying for Express Checkout: Competition and Price Discrimination in Multi-Server Queuing Systems,” *PLoS ONE* **9** (3), e92070.
- Bernhardt, D., S. Mongrain and J. Roberts (2012), “Rehabilitated or not: an Informational Theory of Parole Decisions,” *Journal of Law, Economics & Organizations*, **28**, 186-210.
- Cuff, K., N. Marceau, S. Mongrain and J. Roberts (2012), “Optimal Policies and the Informal Sector,” *Journal of Public Economics* **95**, 1280–1291.
- Marceau, N. and S. Mongrain (2011), “Competition in Law Enforcement and Capital Allocation,” *Journal of Urban Economics* **69**, 136–147.
- Marceau, N., S. Mongrain and J.D. Wilson (2010), “Why Do Most Countries Set High Tax Rates on Capital?” *Journal of International Economics* **80**, 249–259.
- Bernhardt, D. and S. Mongrain (2010), “The Layoff Rat Race” *Scandinavian Journal of Economics* **112**, 185–210.
- Curry, P. and S. Mongrain (2009), “Cheating in Rank-Order Tournaments,” *Review of Law & Economics* **5:1**, Article 30.
- Mongrain, S. and J. Roberts (2009), “Plea Bargaining with Budgetary Constraints,” *International Review of Law & Economics* **29**, 8–12.
- Andolfatto, D., S. Mongrain and G. Myers (2009), “Rational Truth-Avoidance and Self-Esteem,” *Canadian Journal of Economics* **42**, 141–154.
- Curry, P. and S. Mongrain (2009), “What is a Gang and Why Does the Law Care?” *Global Crime* **10**, 6–23. (Lead Article)

- Curry, P. and S. Mongrain (2008), “What You Don’t See Can’t Hurt You: An Economic Analysis of Morality Laws,” *Canadian Journal of Economics* **41**, 583–594.
- Boadway, R., N. Marceau and S. Mongrain (2007), “Redistributive Taxation Under Ethical Behaviour,” *Scandinavian Journal of Economics* **109**, 505–529.
- Mansour, A., N. Marceau and S. Mongrain (2006), “Gangs and Crime Deterrence,” *Journal of Law, Economics & Organization*, **22** 315–339.
- Mongrain, S. and J. Roberts (2005), “Experience Rating: Insurance Versus Efficiency,” *International Economic Review* **46**, 1303–1319.
- Martin, R., S. Mongrain and S. Parkinson (2004), “Severance Payments and Unemployment Insurance: A Commitment Issue,” *Journal of Public Economic Theory* **6**, 593–606.
- Marceau, N. and S. Mongrain (2003), “Damage Averaging and the Formation of Class Action Suits,” *International Review of Law & Economics* **23**, 63–74.
- Boadway, R., N. Marceau and S. Mongrain (2002), “Joint Tax Evasion,” *Canadian Journal of Economics* **35**, 417–35.
- Marceau, N. and S. Mongrain (2002), “Dissuasion du crime et concurrence entre juridictions,” *Revue d’Économie Politique* **112**, 905–19.
- Marceau, N. and S. Mongrain (2000), “Amnesties and Cooperation,” *International Tax and Public Finance* **7**, 259–273.
- Marceau, N. and S. Mongrain (1999), “Dissuasion du Crime: un Survol,” *L’Actualité Économique* **75**, 123–147. (Reprinted in a Book *Économie Public*, Presses HEC, Éditions Economica, 2000, 123–147.)

## Work in progress

- Mongrain, S. and T. van Ypersele (2022) “Profit Shifting with Multiple Instruments”.
- Marceau, N. and S. Mongrain (2022) “Crime, Inequality and Social Mobility”.
- Mongrain, S. and T. van Ypersele (2022) “Existence and Mixed Strategy Equilibrium in Tax Competition Games”.
- Mongrain, S., F. Revelli, T. van Ypersele and R. Zotti (2023), “Waste Treatment Plant Location in Multi-Level Governance”.
- Delpeuch, S., S. Mongrain and T. van Ypersele (2023), “Pillar Two Minimum Taxation and the Allocation of Profit among Tax Havens and Non-Tax Havens.
- Mongrain, S. and T. van Ypersele (2022) “Tax Information Exchange Agreement: Extensive and Intensive Enforcement Margins”.

## Academic Prize

- Harry G. Johnson Prize (2003) for the best paper published (“Joint Tax Evasion”) in the Canadian Journal of Economics in 2002.

## Seminars and conferences

Seminars at the following institution:

Chapman University (2022), UCSB (2022), Brunel University London (2021), Yale-NUS (2019); CESifo - Munic (2015); University of Torino (2015); Bonn University (2014); Max Planck Institute – Munic (2014); University of Alberta (2013); Université Aix-Marseille-GREQAM (2015, 2011 and 2008); Université Catholique de Louvain (2008); Université de Liège (2008); École des Ponts, Paris (2008); University of Southampton (2008); University of Calgary (2008); University of Victoria (2007); University of Oregon (2006), University of New South Wales, School of Banking and Finance, Australia (2005); University of Sydney, Australia (2005); Victoria University of Wellington, New Zealand, (2005); University of Western Ontario (2004); Queen’s University (2003 and 2002); Brock University (2003); Federal Reserve Bank of Cleveland (2003); Meiji Gakuin University, Tokyo (2002); Hitotsubashi University, Tokyo (2002); University of British Columbia (2001); University of Washington (2001); École des HEC (1999); Simon Fraser University (1998).

Presentations at the following conferences:

Shadow, Tallinn, (2023); Workshop on Urban Economics, Edmonton, (2019); Workshop on Tax Evasion: Quebec; (2019); ZEW workshop on Taxation, Mannheim (2022) and (2018); Asian Meeting of the Econometric Society [Kyoto (2016)]; Search and Matching workshop [Aix (2015)]; IEB, Taxation [Barcelona (2019), (2017) and (2011)]; WZB, Competition among Nation States [Berlin (2009)]; Conference in the honour of Robin Boadway [Kingston (2009)]; Journée Louis-Andrée Gerard Varet [Marseille (2016), (2015), (2011), (2008) and (2005)]; Canadian Law and Economic Association [Toronto (2017); Toronto (2016); Toronto (2014); Toronto (2011), Toronto (2007), Toronto (2005)]; University of Victoria Summer Workshop “Public Policy and the Family”, Victoria (2005); Journée du CIRPEE [Saint Paulin (2005), Lac Brome (2004)]; American Law and Economics Association, Chicago (2004); Workshop on Federalism and Decentralization, ZEI Bonn (2003); Canadian Public Economics Study Group, [Kingston (2023), Montreal (2022), Kingston (2017), Kelowna(2015), Montreal (2012), Waterloo (2011), Quebec City (2010); Hamilton (2005), Montreal (2001), Ottawa (1998) and St. John (1997)]; Canadian Economics Theory Meeting, Vancouver (2000); Journal of Public Economics Theory Conference, Warwick (2000); European Economics Association, Santiago de Compostela (1999); Société Canadienne de science Économique, [Montreal (2003) and Montreal (1999)], International Institute of Public Finance Conferences [Reykjavik, Iceland (2021) Taormina, Italy (2013), Jeju, Korea (2005), Prague (2003) and Cordoba, Argentina (1998)]; Canadian Economics Association, [Quebec City (2010); St John (1997)].

## Invited Research Visitor

University of California at Santa Barbara (February-August 2022); GREQAM, Université Aix-Marseille (January-July 2015; April-August 2008 and May-June 2011); Victoria University of Wellington (May 2005); UQAM (June-July 1999; May 2002);

## Refereeing

Acted as a referee for the following journals:

Actualité Économique; American Economic Review; Canadian Journal of Economics; Journal of International Economics; Economic Inquiry; Economic Letters; Economica Politica; European Economic Review; European Journal of Law and Economics; FinanzArchiv; International Journal of Law and Economics; International Tax and Public Finance; Journal of Economic Behavior and Organization; Journal of Institutional and Theoretical Economics; Journal of Law, Economic and Organization; Journal of Public Economics; Journal of Public Economics Theory; Journal of Socio-Economics; Journal of the European Economic Association; Journal of Urban Economics; Regional Science & Urban Economics; Review of Industrial Organization; Review of Law and Economics; National Tax Journal; Scandinavian Journal of Economics; Southern Economic Journal.

## Editorial Boards

- Associate Editor, *Economica Politica*, 2019–
- Editorial Board, *Canadian Journal of Economics*, 2010–2014.

## Research grants

SSHRC Standard grant, \$118 000, *Tax Competition with Heterogeneous Capital*, 2014–2019.

SFU VPR Grant \$10 000, *Tax competition and Heterogenous Capital*, 2012–2013.

SSHRC Small Institutional Grant, \$7 000, *Property Crime with Private Protection*, 2012–2014.

IEB, Research Grants on Fiscal Federalism, €7 000, *Tax Competition with Heterogeneous Capital Mobility*, 2011

SSHRC Standard grant, co-applicant, \$62 000, *Political Economy and Social Policy*, 2011–2013.

Metropolis Grant, \$14 980, *Optimal Minimum Wage Policy and the Informal Sector*, 2010–2012.

*SSHRC Small Institutional Grant, \$5 000, The Economics of Parole, 2008–2009.*

*SSHRC Standard grant, \$35 000, Externalities and the Labor Market, 2004–2007.*

*Burnaby Mountain Grant, SFU, \$10 000, Employment Rat Race, 2002–2003.*

*Burnaby Mountain Grant, SFU, \$10 000, Self-esteem and Employment Behavior, 2002–2003.*

*Metropolis/RIMM Grant, \$9 000, Criminality and Occupational Choice under Free Mobility, 2002–2003.*

*SSHRC Small Institutional Grant, \$5 000, Tax Evasion deterrence, 2001–2002.*

*President’s Research Grant, SFU, \$10 000, Human Capital Investments, Unemployment and Equilibrium Labor Market Tournament, 1999–2002.*

*William and Ada Isabelle Steel Research Grant, SFU, \$5 000, Supplemental Unemployment Benefit and Commitment, 1999–2000.*

### **Other activities**

- *Local Organizer for the 2021 Canadian Economic Association annual meeting in Vancouver.*
- *Co-Organizer of the Canadian Public Economics Group meeting in 2000 and in 2008.*
- *RIIM Economic Domain Leader 2003–2006.*

## Pierre Mouganie

Department of Economics  
Simon Fraser University  
8888 University Dr W  
Burnaby, BC V5A 1S6

Phone: +1 672 999 3596  
Email: [pierre.mouganie@sfu.ca](mailto:pierre.mouganie@sfu.ca)  
<https://sites.google.com/site/pierremouganie>

### Academic Positions:

2021- Assistant Professor, Department of Economics, Simon Fraser University  
(Parental leave: Fall 2022)  
2015 - 2021 Assistant Professor, Department of Economics, American University of Beirut

### Affiliations & Other Positions:

2020 - Present Editorial Board Member, Economics of Education Review  
2025 - Present Research Fellow, Institute of Labor Economics (IZA)  
2019 - 2024 Research Affiliate, Institute of Labor Economics (IZA)  
2019 - Present Contributor, Annenberg EdWorking Papers Series

### Education:

2011-2015	Ph.D.	Economics	Texas A&M University, College Station (TAMU)
2009-2011	M.A.	Economics	American University of Beirut (AUB)
2005-2008	B.B.A.	Finance	American University of Beirut (AUB)

**Research Interests:** Applied Microeconomics, Labor Economics, Economics of Education, Public Economics

### Publications:

Returns to Education Quality for Low-Skilled Students: Evidence from a Discontinuity, with Serena Canaan. *Journal of Labor Economics* 2018 36 (2): 395-436.

Peer Quality and the Academic Benefits to Attending Better Schools, with Mark Hoekstra and Yaojing Wang. *Journal of Labor Economics* 2018 36(4): 841-884.

High Performing Peers and Female STEM Choices in School, with Yaojing Wang  
*Journal of Labor Economics* 2020 38(3): 805-841.

Conscription and The Returns to Education: Evidence from a Regression Discontinuity.  
*The Scandinavian Journal of Economics* 2020 122(3): 1112-1139.

Does Advisor Gender Affect Women's Persistence in Economics?  
with Serena Canaan. *American Economic Association Papers and Proceedings* 2021 111: 112-16.

Adviser Value-Added and Student Outcomes: Evidence from Randomly Assigned College Advisers,  
with Serena Canaan and Antoine Deeb. *American Economic Journal: Economic Policy* 2022 14(4): 151-91.

The Impact of Advisor Gender on Female Students' STEM Enrollment and Persistence,  
with Serena Canaan. *Journal of Human Resources* 2023 58 (2): 593-632

The Adverse Effects of Open Air Waste Burning on Infants' Birth Outcomes,  
(first author\*) with Ruba Ajeeb and Mark Hoekstra. *Forthcoming at Journal of Human Resources*

The Long Run Educational Benefits of High-Achieving Classrooms, with Serena Canaan and Peng Zhang.  
*Accepted at Journal of Policy Analysis & Management*

### Working Papers:

The Impact of Religious Diversity on Students' Academic and Behavioral Outcomes,  
with Serena Canaan and Antoine Deeb. *Revise & Resubmit Journal of Labor Economics*

Keep Me in, Coach: The Short- and Long-Term Effects of a University Coaching Intervention, with Serena Canaan, Stefanie Fischer and Geoff Schnorr. *Revise & Resubmit, Journal of Political Economy Microeconomics*

The Role of University Policies in Exacerbating Socioeconomic Inequality, with Serena Canaan, Stefanie Fischer and Geoff Schnorr.

## Grants and Awards:

2024	Principal Investigator, SFU/SSHRC Small Explore Research Grant, \$7,000
2024	Co-Investigator, SFU FASS Kickstarter Seed Grant, \$13,538
2022	Principal Investigator, SSHRC Insight Development Grant, \$67,371
2021	Upjohn Institute Early Career Research Award
2018	Co-Investigator, Center for Teaching and Learning SOTL Grant (AUB)
2017	Co-Investigator, University Research Board Faculty Grant (AUB)
2015,2016,2018	Short Term Faculty Development Grant (AUB)
2014-2015	Lynde and Harry Bradley Foundation Graduate Research Fellowship Department of Economics, Texas A&M University
2013	PERC Summer Fellowship, Texas A&M University
2013-2014	Khalil and Amal Ghattas Scholarship, Texas A&M University
2012	Korean Economics Alumni Merit Scholarship, Texas A&M University
2011	Samir Makdissi award for best Masters thesis in Economics, American University of Beirut
2009-2011	Graduate Assistant, American University of Beirut

## Conference and Seminar Presentations:

2024	ASSA 2025 Annual Meeting, University of Tennessee
2024	ASSA 2024 Annual Meeting, WEAI 2024 Annual Meetings, University of Victoria, Georgia State University, Boston Univ. (Wheelock), Univ. of Montreal
2023	Peking University, Western Washington University
2022	ASSA 2022 Annual Meeting, Hitotsubashi University
2021	New York University-Abu Dhabi, Simon Fraser University SOFI Institute-Stockholm University, Suffolk University University of Alabama Universitat Autònoma de Barcelona, University of Florida, University of Essex EUI-Florence, SOLE 2021 Meetings
2020	EALE/SOLE World Meetings
2019	4th IZA Junior/Senior Symposium; Texas A&M PLIO Alumni conference; SOLE Annual Meetings
2018	3rd Lebanese Econometrics Group Meetings; UCSB Labor Lunch Seminar; University of Texas-Austin, Brown Bag Seminar
2017	2nd Lebanese Econometrics Group Meetings; Doha Institute for Graduate Studies Seminar; SOLE Annual Meetings
2016	1st IZA workshop on the Economics of Education European Economics Association (EEA) Meetings Association for Education Finance and Policy (AEFP) Meetings
2015	European Economics Association (EEA) Meetings
2014	Stata Texas Empirical Microeconomics Conference [Poster Session] Applied Microeconomics Brown Bag Seminar, Texas A&M University

## Teaching:

### *Simon Fraser University:*

- Introduction to Microeconomics (Fall 2023, Spring 2024, Fall 2024, Spring 2025)
- Seminar in the Economics of Education (Spring 2022, Spring 2023, Fall 2023, Fall 2024)
- Capstone Seminar in Social Data Analytics (Spring 2022)

### *American University of Beirut:*

- Applied Econometrics (Fall 2018)
- Graduate Econometrics (Fall 2015, Fall 2016, Fall 2018, Fall 2020)
- Intermediate Microeconomics (Fall 2015, Spring 2016, Fall 2016, Fall 2017, Fall 2019, Spring 2019,  
Fall 2020, Spring 2020)
- Introductory Microeconomics (Summer 2014)
- Statistics for Economists (Summer 2014)

## Professional Service:

### **Referee for:**

*American Economic Journal: Applied Economics, American Economic Journal: Economic Policy, BE Journal of Economic Policy & Analysis, Canadian Journal of Economics, China Economic Review, Defence and Peace Economics, Economica, Economics of Education Review, Economic Inquiry, Economic Journal, Education Economics, Empirical Economics, Industrial and Labor Relations Review, Journal of Economic Behavior & Organization, Journal of Human Resources, Journal of Labor Economics, Journal of Public Economics, Journal of the European Economic Association, Labour Economics Southern Economic Journal, Quantitative Economics*

### **University & Departmental Service:**

2024	Brownbag Committee (SFU)
2022, 2023	Economics Department Hiring Committee (SFU)
2022, 2023	Graduate Program Committee (SFU)
2015-2020	Organizer of the Economics Department Seminar Series (AUB)
2019-2021	Economics Department Assessment Committee (AUB)
2016-2017	Undergraduate Academic Advisor (AUB)
2015-2017	Writing Member of the Departmental Program Review Committee (AUB)
2016	Member of the Faculty of Arts and Science Research Committee (AUB)
2015, 2016, 2018	Economics Department Hiring Committee (AUB)

### **Other:**

Reviewer for AUB's Center for Teaching and Learning annual conference (×2)

**Computer Skills:** STATA, MATLAB, L<sup>A</sup>T<sub>E</sub>X, Microsoft Office

**Languages :** English (Fluent), Arabic (Native), French (Intermediate)

## **Gordon M. Myers**

### **Professor of Economics**

**Vice-Provost and Associate Vice-President Academic, 2012-2017**

### **Degrees**

Ph.D., Economics, McMaster University, 1990.

MA, Economics, McMaster University, 1985.

MA Diploma, International Graduate School, University of Stockholm, 1983.

BA, Economics, Queen's University, 1982.

### **Research**

Primary Fields: Public Economics and Urban Economics

### **Journal Publications since 2018**

G. M. Myers (2019) "Responsibility Center Budgeting as a Mechanism to Deal with Academic Moral Hazard", **Canadian Journal of Higher Education** 49(3), 13-23.

Kimbrough, E. O., G. M. Myers, and A. J. Robson, (2021) "Infanticide and Human Self Domestication" **Frontiers in Psychology** 12, 10.3389/fpsyg.2021.667334

G. M. Myers (2022) "A Mechanism for Budgeting Faculty Support Services: Ask the Deans", **Canadian Public Policy** 48(2), 304-316.

A. DePalma, G. M. Myers, and Y. Y. Papageorgiou (2023) "Imperfect Public Choice", **Canadian Journal of Economics** 56(4), 1413-1429.

### **Chapters in Books**

G. M. Myers (2023), "On Resourcing the Pursuit of Academic Excellence," in **Conversations on Ethical Leadership: Lessons Learned from University Governance**, edited by I. Stefanovic, University of Toronto Press, Toronto, 79-94.

### **Grants**

I have a \$100K internal grant for my eleven years of admin work (Chair and AVPA) for the university

### **Current Graduate Supervision**

Supervisory Committee for PhD candidate GaRam Kim

**Krishna Pendakur**, Professor, Department of Economics  
Simon Fraser University, Burnaby, BC, CANADA V5A 1S6  
email: pendakur@sfu.ca, ph: (778) 782-3508, fax: (778) 782-5944

## Education

BA (Hons), Sociology, University of British Columbia,  
MA, Economics, University of British Columbia,  
PhD, Economics, University of California at Berkeley,

## Date

May 1989  
Aug 1990  
May 1994

## Professional Experience

Economist, Department of Finance, Government of Canada,	Sep 1990 - Aug 1991.
Assistant Professor, Economics, Simon Fraser University,	Nov 1994 - Aug 2000.
Associate Professor (with tenure), Economics, Simon Fraser University,	Sep 2000 - Aug 2008.
Professor, Economics, Simon Fraser University,	Aug 2008 - present.
<i>Economics Endowed Professorship</i> , Simon Fraser University,	Sep 2013 – June 2023.
<i>Distinguished Professor</i> , Simon Fraser University	July 2023 - present

## Fields and Keywords

Keywords: Economic Inequality and Poverty; Household Economics; Labour Market  
Discrimination; Mental Health

Subfields: Econometrics; Public Economics; Economic History; Applied Microeconomics

## Published Papers (Most Recent First)

*S* indicates research financially supported by the Social Sciences and Humanities Research Council of Canada (SSHRCC);  
\* indicates a refereed journal article;  
□ indicates a lead article.

*S\** Carpenter CS, Feir DL, Pendakur K, Warman C. 2025. [Nonbinary Gender Identities and Earnings: Evidence from a National Census](#), forthcoming, American Economic Review Insights (also as: NBER Working Paper 33075.)

\* Daniel V. Vigo, Kristen L. Hudec, Saimoom Ferdous, Richard J. Munthali, Julia Pei, Lonna Munro, Krishna Pendakur, Lakshmi N. Yatham, Ronald C. Kessler, Raymond T. Ng & Joseph H. Puyat, 2025, “Excess mortality in COVID-19-negative people with non-communicable disorders during the first pandemic wave”, [BMC Public Health](#) volume 25, Article number: 736 (2025).

*S\** Lewbel, Arthur and Krishna Pendakur, 2023, “Estimating A Model of Inefficient Cooperation and Consumption in Collective Households”, forthcoming, [Review of the the Economics of the Household](#).

*S\** Jacks, David, Krishna Pendakur and Hitoshi Shigeoka, 2023. “Urban Mortality and the Repeal of Federal Prohibition”, forthcoming, [Explorations in Economic History](#).

*S\** Botosaru, Irene, Chris Muris and Krishna Pendakur, 2023, “Intertemporal Collective

- Household Models: Identification in Short Panels with Unobserved Heterogeneity in Resource Shares”, Journal of Econometrics. Volume 232, Issue 2, February 2023, Pages 576-597.
- S\* Lechene, Valerie, Krishna Pendakur and Alexander Wolf, 2022, ["OLS Estimation of the Intra-Household Distribution of Consumption"](#), Journal of Political Economy, 130(3), pp. 681-731.
- S\* Lewbel, Arthur, Sam Norris, Krishna Pendakur and Xi Qu, 2022, “Keeping up with peers in India: A new social interactions model of perceived needs”, Quantitative Economics, Volume 13, Issue 3, Pages 1257-1295
- S\* Lewbel, Arthur and Krishna Pendakur, 2022, ["Inefficient Collective Households"](#), Economic Journal, Volume 132, Issue 645, Pages 1882–1893.
- S\* Jacks, David, Krishna Pendakur and Hitoshi Shigeoka, 2021, “Infant Mortality and the Repeal of Federal Prohibition”, Economic Journal, 131 (639), 2955-298.
- S\*□ Najjarrezaparast, Paniz and Krishna Pendakur, 2021, “How did the Canada Child Benefit affect household spending?”, Canadian Public Policy, 47(4), pp. 479-496.
- S\* Pendakur, Krishna and Ravi Pendakur, 2021, “The Impact of Self government, Comprehensive Land Claims and Opt-in Arrangements on Income Inequality in Indigenous Communities in Canada”, Canadian Public Policy, 47(2), pp.180-201.
- \* Daniel Vigo, Laura Jones, Richard Munthali, Julia Pei, Jean Westenberg, Lonna Munro, Carolina Judkowitz, Angel Y. Wang, Brianna Van den Adel, Joshun Dulai, Michael Krausz, Randy P. Auerbach, Ronny Bruffaerts, Lakshmi Yatham, Anne Gadermann, Brian Rush, Hui Xie, Krishna Pendakur, Chris Richardson, 2021, “Association of COVID-19 Dissemination with Symptoms of Anxiety and Depression Among University Students”, British Journal of Psychiatry Open, 7(2).
- S\*□ Dunbar, Geoffrey, Arthur Lewbel, and Krishna Pendakur, 2019, ["Identification of Random Resource Shares in Collective Households Without Preference Similarity Restrictions"](#), Journal of Business and Economic Statistics. 39(2), pp. 402-421.
- \* Vigo, D.V., Kestel, D., Pendakur, K., Thornicroft, G. and Atun, R., 2019. ["Disease burden and government spending on mental, neurological, and substance use disorders, and self-harm: cross-sectional, ecological study of health system response in the Americas"](#). The Lancet: Public Health, 4(2), pp. e89-e96.

### NBER Working Papers

- S Carpenter CS, Feir DL, Pendakur K, Warman C. 2024. [Nonbinary Gender Identities and Earnings: Evidence from a National Census](#), NBER Working Paper 33075.
- S Jacks, D.S., Pendakur, K., Shigeoka, H. and Wray, A., 2023, “Later-life Mortality and the Repeal of Federal Prohibition”, National Bureau of Economic Research Working Paper, (No. w31451). Revision requested, Journal of Public Economics
- S Jacks, D.S., Pendakur, K., Shigeoka, 2020, “Urban Mortality and the Repeal of Federal Prohibition”, National Bureau of Economic Research Working Paper, (No. w28181).
- S Jacks, D.S., Pendakur, K., Shigeoka, 2020, “Infant Mortality and the Repeal of Federal

Prohibition”, National Bureau of Economic Research Working Paper, (No. w23372).

### **Other Working Papers**

- S* Pendakur, Krishna and Ravi Pendakur, 2024, “Indigenous Earnings Convergence”, unpublished working paper.
- S* Manzur, Shirleen and Krishna Pendakur, 2023, “Titling vs Targeting: How did the Canada Child Benefit affect household bargaining and preferences?”, revision requested, Canadian Journal of Economics
- S* Hsieh, Jeff, Arthur Lewbel and Krishna Pendakur, 2024, “Estimating Scale Economies in Collective Households”, unpublished working paper.
- S* Pendakur, Krishna and Ravi Pendakur, 2024, “Off-colour: Canada’s ethnically stratified labour market, 1995 – 2020”, revision submitted, Journal of International Migration and Integration.
- S* Blundell, Richard, Karlajainen, Heidi, Lechene, Valerie and Krishna Pendakur, 2023, “Gender Inequality Within and Across Households in the UK, 1978 to 2019”, unpublished working paper.

### **Awards**

Meeker Visiting Professorship, September 2019, University of Bristol, UK  
 Rae Prize 2022, Awarded by the Canadian Economics Association for the best scholarly output for a Canadian Economist over the previous 5 years.  
 Distinguished Professor 2023-2028, Simon Fraser University (one of 45 amongst 1300 faculty)  
 Bank of Canada Fellow 2024-2028.

### **Doctoral Student Training**

Senior Supervisor for current PhDs: Shayan Sanatkar (exp 2025); Jeff Hsieh (exp 2025).  
 Senior Supervisor for completed PhDs: Xiaolin Sun (2022). Shirleen Manzur (2023)  
 External Reviewer for Doctoral Candidates: Khushboo Surana (2020), University of Leuven

### **Grants**

\* denotes that I was Principal Investigator.

Name	Dates	Amount
William Lyon Mackenzie King Research Funds	2017-19	\$120,000
*SSHRC Insight Grant: "Short Panel Demand Analysis"	2019-23	\$85,000
*SSHRC Insight Grant: "Scanner Data and Demand"	2024-28	\$208,000
Bank of Canada Fellowship	2024-28	\$200,000

### **University Level Service:**

2017-19 Vice-President, SFU Faculty Association  
 2019-20 Member, Bargaining Team, SFUFA

2020-21 VP Equity Search Committee  
2021-23 SFU Equity Committee

**Academic Service:**

2016-20 Board Member, Canadian Economics Association  
2020-21 Member, SSHRC Insight Grant Adjudication Committee

**Public Service:**

2018-2026 Member, Minister's Poverty Reduction Advisory Committee, Government of British Columbia

**Nonacademic Papers, Available on my website:**

Pendakur, Krishna, ["Visible Minorities in Canada's Workplaces"](#).

Pendakur, Krishna, ["Visible Minorities and Aboriginals in Vancouver's Labour Market"](#).

Pendakur, Krishna and Ravi Pendakur. ["Ethnic Identity and the Labour Market"](#).

Eaton, B. Curtis, Krishna Pendakur and Clyde Reed. ["Socializing, Shared Experience and Popular Culture"](#).

**WORKSHOPS AND PRESENTATIONS****Academic Presentations 2008-**

Jun 2024 University of Leuven, "Five Decades of UK Resource Shares"  
Mar 2024 University of Verona, "Five Decades of UK Resource Shares"  
Dec 2023 Western University (formerly UWO), "Scale Economies"  
Oct 2023 Queens University, "Scale Economies"  
May 2023 New Advances in Household Economics, "Scale Economies"  
Nov 2022 University of Victoria, "Five Decades of UK Resource Shares"  
Nov 2022 Stanford University, "Five Decades of UK Resource Shares"  
Nov 2022 University of California at Davis, "Five Decades of UK Resource Shares"  
Oct 2022 University California at Berkeley, "Five Decades of UK Resource Shares"  
Jun 2022 London School of Economics, "Five Decades of UK Resource Shares"  
May 2022 University of Leuven, "Five Decades of UK Resource Shares"  
May 2022 Brussels University "Short Panel Intertemporal Collective Household Models"  
Oct 2021 University of Oxford, "Five Decades of UK Resource Shares"  
Oct 2021 University of Bristol, "Five Decades of UK Resource Shares"  
Oct 2021 University College London, "Nonlinear Panel Models with Fixed Effects"  
Sep 2021 University College London, "Five Decades of UK Resource Shares"  
Oct 2020 Indigenous Economics Series, "Modern Treaties and Income Inequality"  
Oct 2020 University of Victoria, "Nonlinear Panel Models with Fixed Effects"  
May 2020 Oxford, "Nonlinear Panel Models with Fixed Effects"  
Apr 2020 Harvard, "Nonlinear Panel Models with Fixed Effects"  
Apr 2020 U Penn, "Nonlinear Panel Models with Fixed Effects"  
Jan 2020 UT San Antonio, "OLS Estimation of Household Models"

Nov 2019	World Bank, “OLS Estimation of Household Models”
Nov 2019	U.C.L.A. (Anderson), “Inefficient Collective Households”
Nov 2019	U.C.S.B., “Inefficient Collective Households”
Nov 2019	U.C. Irvine, “Inefficient Collective Households”
Nov 2019	U.C. Irvine, “Alcohol Prohibition and Infant Mortality”
Oct 2019	University College London, “OLS Estimation of Household Models”
Sep 2019	University College London, “Inefficient Collective Households”
Sep 2019	University of Verona, “OLS Estimation of Household Models”
Sep 2019	University of Leuven, “Inefficient Collective Households”
Sep 2019	University of Bristol, “Inefficient Collective Households”
Jun 2018	University of Victoria, “Aboriginal Agreements”
Jun 2018	University of Bristol, “Random Resource Shares”
Jun 2018	University of Leuven, “Random Resource Shares”

**Nonacademic Presentations 2008-**

Oct 2024	Bank of Canada, “Indigenous Convergence”
Oct 2024	Kelowna Policy Group, “Indigenous Convergence”
Nov 2023	CSRDC, “Using Identity Data”
Oct 2023	Queens University, Clark Lecture, “Inequality”
Oct 2020	CSRDC---20 Years of the RDC, “Roundtable”
Sep 2019	University of Bristol, <i>Meeker Lecture</i> “Globalization and Rising Inequality”

# Luba Petersen

Spring 2025

## Department Address:

Department of Economics  
Simon Fraser University  
8888 University Drive  
Burnaby, BC,  
V5A 1S6, Canada

## Personal Contact:

Email: [luba\\_petersen@sfu.ca](mailto:luba_petersen@sfu.ca)  
[http://www.sfu.ca/~lubap/Site/Luba\\_Petersen.html](http://www.sfu.ca/~lubap/Site/Luba_Petersen.html)

## Current Position

Sept 2018 – present *Associate Professor*  
Department of Economics, Simon Fraser University

## Credentials

2007-2012	<i>Ph.D., Economics</i>	University of California Santa Cruz
2006-2007	<i>M.A., Economics</i>	University of British Columbia
2002-2006	<i>B.A., Specialist Honours, Economics</i> <i>Minor: Mathematics and Statistics</i>	McMaster University

## Other Employment

Oct 2022– June 2023 *Economist*  
Federal Reserve Bank of San Francisco, Economics Department

Sept. 2018-Apr. 2019 *Department Special Advisor*, Canadian Economic Analysis, Bank of Canada

Sept. 2012-Aug. 2018 *Assistant Professor*  
Department of Economics, Simon Fraser University

## Other Appointments

2023 – present	<i>Monetary Policy Council Member</i> C.D. Howe Institute
2023 – present	<i>External Academic Advisor</i> Bank of Canada
2022 – present	<i>Co-Director</i> Simon Fraser University Experimental Economics Laboratory (formerly CRABE)
2022 – 2024	<i>Guest Editor</i> Journal of Economic Behavior and Organization Journal of Economic Dynamics and Control
2022 – present	<i>Research Associate</i> National Bureau of Economic Research

2020 – present	<i>Monetary Policy Institute Fellow</i> C.D. Howe Institute
2020 – 2023	<i>Advisory Council Member</i> Society for Computational Economics
2019 - present	<i>Research Fellow for RPN</i> Centre for Economic Policy Research (CEPR) Research Policy Network on Central Bank Communication
2019 – 2021	<i>Conference Officer (North America)</i> Society for Experimental Finance
2018 – 2020	<i>External Advisory Board Member</i> Bank of Canada’s Digital Publication “The Economy Plain and Simple”
2013 – 2022	<i>Steering Committee Member</i> SFU Centre for Adaptive Behaviour in Economics
2012 – present	<i>Researcher</i> CIRANO, Montreal, Quebec

### **Other Affiliations**

Jan.-Apr. 2025	<i>Visiting Professor</i> , University of Technology Sydney Business School
Sept. 2022	<i>Department Special Advisor</i> , Canadian Economic Analysis, Bank of Canada
Sept. - Dec. 2019	<i>Visiting Scholar</i> , University of California Santa Barbara

### **Experimental Economics Lab Affiliations**

<i>Primary Lab</i>	<i>Co-Director</i>
2012 - present	Simon Fraser University Experimental Economics Laboratory (formerly CRABE)

### *Affiliated Labs*

2018 - 2022	Texas A&M Economics Research Lab (ERL)
2018 – 2019	Carleton Economics Laboratory for Behavioural and Experimental Research (CELBER)
2018	Experimental Lab at the Vancouver School of Economics (ELVSE)

### **Research Interest**

Macroeconomics, Design of Monetary Policy, Central Bank Communication, Expectation Formation, Fiscal and Monetary Policy Cooperation, Behavioral and Experimental Economics and Finance, Experimental Macroeconomics

## **Publications Since 2018**

- Kronick, J. and Petersen, L. (2024). “Does Fiscal and Monetary Policy Cooperation Matter?” **Journal of Economic Dynamics and Control**. In press.
- Petersen, L. & Rholes, R. (2022). “Macroeconomic Expectations, Central Bank Communication and Background Uncertainty: a Covid-19 Laboratory Experiment” **Journal of Economic Dynamics and Control**, 143, 104460.
- Kryvtsov, O. and Petersen, L. (2021). “Central Bank Communication That Works: Lessons from Lab Experiments” **Journal of Monetary Economics**, 117, 760-680.
- Rholes, R. & Petersen, L. (2021). “Should Central Banks Communicate Uncertainty in their Projections?” **Journal of Economic Behavior and Organization**, 183, 320-341.
- Mokhtarzadeh, F. and Petersen, L. (2021). “Coordinating Expectations through Central Bank Projections” **Experimental Economics**, 24, 883-918.
- Fenig, G., Mileva, M. and Petersen, L. (2018). Deflating Asset Price Bubbles with Leverage Constraints and Monetary Policy. **Journal of Economic Behavior and Organization**, 155, 1-27.

## **Refereed Policy Publications Since 2018**

- Kronick, J. and Petersen, L. (2022). Does fiscal and monetary policy coordination matter? **C.D. Howe Institute Commentary**, 633, 1-24.
- Petersen, L. and Wells, S. (2021). “The Case for Raising the Bank of Canada’s Inflation Target” **Max Bell School of Public Policy Conference Volume 1: Choosing the Right Target**, edited by Christopher Ragan and Stephen Gordon

## **Refereed Non-Economics Publications Since 2018**

- Wood, M.D., West, N.C., Sreepada, R. Loftsgard, K.C., Jordan, I., Petersen, L. Whyte, S.D., Lauder, G.R., Portales-Casamar, E., and Görges, M. (2022). Development of an individualized pain prediction tool in pediatrics – Identification of risk factors, patient reported experience and outcome measures, and data capture tools for pre- and post-operative use. **JMIR Perioperative Medicine**, 5(1), e4234.

## **Non-Refereed Published Discussions Since 2018**

- Petersen, L. (2024). Discussant remarks on “Trust in Central Banks” by Michael Ehrman. **2024 Reserve Bank of Australia Conference on Central Bank Communications**.

## **Working Papers Since 2018**

- Kostyshyna, O. and Petersen, L. (2024). “The Effects of Communicating Inflation Uncertainty on Household Expectations”. NBER Working Paper 32939. (under review)
- Fenig, G. and Petersen, L. (2024). “Dynamic Optimization Meets Budgeting: Unraveling Financial Complexities”. NBER Working Paper 32821. (Revise&Resubmit, Journal of Economic Behavior and

## Organization)

Kostyshyna, O., Petersen, L. and Yang, J. (2024). “History Dependent Monetary Policy: Less is More” (under review)

Earlier title “A Horserace of Monetary Policy Regimes: An Experimental Investigation”, NBER Working Paper 30530.

Eickmeier, S. and Petersen L. (2024) “Toward a holistic approach to central bank trust”. NBER Working Paper 32716. Reject&Resubmit, European Journal of Political Economy.

Eickmeier, S. and Petersen L. (2024) “The ECB’s Climate Activities and Public Trust”. NBER Working Paper 33103. (under review)

Petersen, L. & Rholes, R. (2020). “Escaping Secular Stagnation with Unconventional Monetary Policy”, NBER working paper 30117

## Bank of Canada Working Papers Since 2018

Kostyshyna, O. and Petersen, L. (2023). Communicating Inflation Uncertainty and Household Expectations. Bank of Canada Staff Working Paper 2023-63

Kostyshyna, O., Petersen, L., and Yang, J. (2022). “An Experimental Horse Race of Monetary Policy Regimes”, NBER working paper 30530 and Bank of Canada Staff Working Paper.

## Work in Progress

Mubde, M., & Zagre, P.C.M., & Owusu, J., & Kianni, A., and Petersen, L. “Communicating Uncertainty During a Pandemic”

McMahon, M., Petersen, L., and Rholes, R. Dissecting Heaping in Response Data: Causal Evidence on the Roles of Complexity and Uncertainty

Armantier, O., Petersen, L. and Pfajfar, D. “Deflationary Bias and Optimal Monetary Policy”

Azizirad, M., Herrenbrueck, L. and Petersen, L. “Neofisherian vs. New Keynesian Expectations”

Alpanda, S. Petersen, L. Zubairy, S. “Debt Overhang: Experimental Evidence”

## Presentations at Seminars & Conferences (including scheduled) Since 2018

### *Invited Seminars*

2025 Sydney Experimental Economics Seminar, European Central Bank

2024 Virginia Commonwealth University, University of New South Wales, University of Technology Sydney, Reserve Bank of Australia, Middlebury Experimental Economics Seminar

- 2023 CEPR Webinar Series on Central Bank Communication, International Monetary Fund, San Jose State University, UC Davis, Experimental and Behavioral Economics of the Americas Seminar Series
- 2022 DePaul University, University of Ottawa, University of Alberta, University of Iowa, Bundesbank
- 2021 Bielefeld University, University College Dublin, University of California Berkeley, Florida State University
- 2020 Bank of Canada
- 2019 Nanyang Technological University, Middlebury College, University of Amsterdam, Chapman University
- 2018 McMaster University, Universite de Laval, Narodowy Bank Polski, Heidelberg University

*Invited Plenary, Keynote, Conference and Panel Presentations*

- 2025 Queen's University WECAN Conference, Invited Speaker
- 2024 6<sup>th</sup> Behavioral Macroeconomics Workshop at the University of Heidelberg, Keynote  
"The Effects of Communicating Inflation Uncertainty on Household Expectations"
- 2024 Federal Reserve Bank of Cleveland "Central Bank Communications: Theory and Practice",  
Invited Speaker  
"The Effects of Communicating Inflation Uncertainty on Household Expectation"
- 2024 AWESOME 2024 @ Wilfred Laurier University, Keynote  
"The Effects of Communicating Inflation Uncertainty on Household Expectations"
- 2023 CENDEF @ 25, University of Amsterdam, Invited speaker
- 2023 Expectations in Dynamic Macroeconomic Models, Vienna, Keynote  
"The Effects of Communicating Inflation Uncertainty on Household Expectations"
- 2023 Economic Science Association World Meetings, Lyon, Invited panelist on "Experimental economists and central bankers: What can we learn?"
- 2023 Workshop on Behavioral Economics and Finance at DUFEE, Dongbei University, Keynote  
"The Effects of Communicating Inflation Uncertainty on Household Expectations"
- 2023 International Workshop on Experimental Finance and Macroeconomics, Institute of Social and Economic Research (IESR), Osaka University, Invited Speaker  
"An Experimental Horserace of Monetary Policy Regimes"
- 2022 Conference on Theoretical and Experimental in Monetary Economics, Plenary Speaker  
"Macroeconomic Literacy and Expectations"
- 2022 Economic Science Association – Asia Pacific Meetings, University of Waseda, Keynote  
"Designing Monetary Policy in the Lab"

- 2021 Bank of Canada Annual Conference, Plenary speaker  
“A Horse Race of Monetary Policy Regimes: Experimental Evidence”
- 2021 WEHIA Keynote  
“A Horse Race of Monetary Policy Regimes: Experimental Evidence”
- 2021 Atlantic Canada Economics Association Virtual Conference, Plenary speaker  
“A Horse Race of Monetary Policy Regimes: Experimental Evidence”
- 2021 Third Behavioural Macroeconomics Workshop in Bamberg, Plenary speaker  
“A Horse Race of Monetary Policy Regimes: Experimental Evidence”
- 2020 C.D. Howe Annual Meeting, Panelist  
“A Behavioural Perspective on the Bank of Canada’s Mandate Renewal”
- 2020 Max Bell School of Public Policy Conference on the Renewal of Bank of Canada’s Inflation Control Agreement (McGill University), Plenary speaker  
“Managing Expectations: The Case for Raising the Bank of Canada’s Inflation Target”
- 2019 Canadian Science Policy Centre: Special Event (Ottawa), Panelist  
“Understanding Data in a Digital Age: What Public Servants Need to Know”
- 2019 11<sup>th</sup> Canadian Science Policy Conference (Ottawa), Panelist  
“Data for Impact: How Trusted Partners Can Advance Canada’s Digital Transformation”
- 2019 European Central Bank/CEPR Research Network Conference on Central Bank Communication (Frankfurt)  
“Central Bank Communication That Works: Lessons from Lab Experiments”
- 2019 CWEN Seminar, Canadian Economics Association Meetings (Banff), Panelist  
“The Ins and Outs of Successful Grant Applications and Other Ways to Fund Your Research”

#### *Competitive Conferences and Workshops*

- 2024 Canadian Economics Association Meetings (Toronto), NBER Summer Institute in Monetary Economics
- 2023 ASSA Meetings (New Orleans), Barcelona GSE Summer Forum on Theoretical and Experimental Macroeconomics (Barcelona), Computing in Economics and Finance Meetings (Lyon), NBER Summer Institute in Behavioral Macroeconomics
- 2022 ASSA Meetings (online), Canadian Economics Association Meetings (online), Barcelona GSE Summer Forum on Expectations in Dynamic Macroeconomics (Barcelona), Galapagos Experimental Economics Conference (San Cristobal), Stavanger Behavioral and Experimental Economics Conference (Stavanger)
- 2021 Experimental Macroeconomics Experimental Finance Brown Bag Series (online), CEBERG meetings (online), Computing in Economics and Finance Meetings (online)

- 2019 Canadian Economics Association Meetings (Banff), Computing in Economics and Finance Meetings (Ottawa), International Economics Association Meetings (Vancouver), Society for Experimental Finance Asia Pacific Meetings (Singapore), Banque de France and Deutsche Bundesbank Conference on Household Expectations (Frankfurt)
- 2018 Canadian Economics Association Meetings (Montreal), Computing in Economics and Finance Meetings (Milan), International Economic Science Association Meetings (Berlin), Theoretical and Experimental Macroeconomics Workshop (Berlin), Bank of Canada Central Bank Communication Workshop (Ottawa), Southern Economics Association Meetings (D.C.), Computational and Financial Econometrics Conference (Pisa)

*Invited Discussions*

- 2024 Bank of Canada Annual Conference; Ottawa  
Michael McMahon and Matthew Naylor  
“Getting through: Communicating complex information”
- 2024 Conference on Central Bank Communication, Reserve Bank of Australia  
Michael Ehrmann  
“Trust in Central Banks”
- 2023 European Central Bank at the Crossroads, University of Victoria  
Paul Beaudry, Michelle Chang, Eric Helleiner, and Benjamin Cohen.  
“Central Banking in comparative perspective: dealing with a high inflation environment post-COVID-19”
- 2023 European Central Bank at the Crossroads, University of Victoria  
Jakob de Haan  
“ECB communication policies on monetary policy: An overview and comparison with the Federal Reserve”
- 2023 European Central Bank at the Crossroads, University of Victoria  
Susana Matos Rosa  
“Central banking and environment sustainability: how monetary policy strategies are being shaped towards green objectives”
- 2023 Bank of Canada Inflation Drivers Conference, Ottawa;  
M. Hoffman, E. Moench, L. Pavlova, and G. Schulte-frankenfeldz.  
A KISS for central bank communication in times of high inflation
- 2023 ASSA Meetings, New Orleans;  
C. Hommes, J. Pinter, and I. Salle.  
What People Believe about Macro Policies and What We Can(’t) Do about It: Evidence from a Large-Scale Multi-Country Survey Experiment
- 2022 NBER Inflation Expectations: Determinants and Consequences;  
F. Savignac, E. Gautier, Y. Gorodnichenko, O. Coibion  
“Firms’ inflation expectations: New Survey Evidence from France”
- 2022 Federal Reserve Bank of San Francisco Annual Conference;

- C. Wu and C. Xia  
 “Average inflation targeting: Time inconsistency and intentional ambiguity”
- 2020 Bank of Canada-Statistics Canada Workshop on CPI;  
 O. Kostyshyna and A. Xu  
 “What drives consumers’ inflation perceptions?”
- 2019 ASSA Meetings, Atlanta;  
 T. Bao  
 “CEO incentives and stock price dynamics: an experimental approach”
- 2018 Southern Economics Association Meetings, D.C.;  
 D. Munro  
 “Market concentration and dynamics of prices and mark-ups”

### **Research Grants (PI/Co-PI)**

*(awarded amounts in CDN\$ unless otherwise specified)*

- 2024-26 SSHRC Small Explore Grant, \$10,000, PI  
 “Building empirically relevant experimental macroeconomics”  
 Co-PI: Ke Li
- 2019-23 SSHRC Insight Grant, \$151,466, PI  
 “Debt Overhang and Monetary Policy: Experimental Evidence”  
 Collaborators: Sami Alpanda and Sarah Zubairy
- 2019-21 SSHRC Insight Development Grant, \$74,162, Co-PI  
 “Identifying Rules of Thumb in Consumption and Saving Decisions”  
 PI: Guidon Fenig; Co-PI: Yoram Halevy
- 2019 SSHRC Connection Grant, \$30,212, PI  
 “Summer School and Workshop on Theoretical and Experimental Macroeconomics”  
 Co-PI: Janet Hua Jiang; Collaborators: Robert Amano, John Duffy, Frank Heinemann, Rosemarie Nagel, Shyam Sunder
- 2019-21 National Science Foundation Doctoral Dissertation Improvement Grant, USD \$35,982, Co-PI  
 “Escaping Secular Stagnation with Unconventional Policy”  
 PI: Catherine Eckel; Co-PI: Ryan Rholes
- 2018-20 SFU VPR 4A Grant, \$10,000, PI  
 “Cognitive Foundations for Effective Monetary Policy”
- 2018-20 SSSHRC-SFU Institutional Grant, \$7,000, PI  
 “Can Price Level Targets and Central Bank Communication Improve Decision Making?”
- 2017-19 PSSHRC, University of Saskatchewan, \$7,000, Co-PI  
 “Experiments on Consumption Smoothing under Price-Level Targeting”  
 PI: Guidon Fenig

## **Scholarships, Honours, and Awards**

- 2021 CWEC Early Career Researcher Award  
Judged by the selection committee appointed by the CWEC/CFEC Awards Committee to have the best research record.
- 2021 Scholarly Impact of the Week, Simon Fraser University

## **Competitive Awards and Funding for Supporting Supervised Student Research Activities**

- 2024 Summer 2024 SFU Undergraduate Student Research Award  
Mingna Li
- 2021 Summer 2021 and Fall 2021 SFU Undergraduate Student Research Award  
Bohao Zhang
- 2020 Summer 2020 Mitacs Student Training Award  
Farouk Abdul-Salam
- 2020 Summer 2020 SFU Undergraduate Student Research Award  
Ekeme Afia

## **Graduate and Postgraduate Supervision and Research Training**

### *Ph.D. Dissertations*

- Supervisor: Jorge Martinez (2022-present), Hung Truong (2022-present), Eric Fortier (2023-present); Samuel Basoah (2024-present),
- Co-supervisor: Fatemeh Mokhtarzadeh (2016, Postdoctoral Fellow at University of Victoria)  
Farouk Abdul-Salam (2021, Economist, Amazon)  
Ryan Rholes (Texas A&M, 2021, Postdoctoral Fellow at University of Oxford)
- Committee: Hanh Tong (2020, Data Scientist, Theory+Practice)  
Yang Li (2022, Liaoing University)  
Marieh Azizirad (2024, International Monetary Fund)  
Hau Pang Chow (2025-present)

### *Postdoctoral Supervision*

- Fatemeh Mokhtarzadeh (2020-2021)

# MARIE REKKAS

[mrekkas@sfu.ca](mailto:mrekkas@sfu.ca) | [sites.google.com/view/mrekkas](https://sites.google.com/view/mrekkas)

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## EDUCATION

PhD, University of Toronto, Economics, 2002  
MA, University of Toronto, Economics, 1997  
MSc, University of Toronto, Statistics, 1996  
BA, York University, Economics and Statistics, 1995

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## CURRENT APPOINTMENT

Associate Professor, Simon Fraser University, Department of Economics, from 2009

## PAST APPOINTMENT

Assistant Professor, Simon Fraser University, Department of Economics, 2002–2009

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## RESEARCH

### WORKING PAPERS

A Competitive Search Model of Housing Markets. (With Randall Wright, Yu Zhu, and Lei Jiang)  
Estimating the Effect of Metro Vancouver's 2016 Foreign Buyers Tax on City-Level Real Estate Prices. (With David Andolfatto)  
A General Approach to Intervention Analysis using Interrupted Time Series Methods. (With Jeffrey Wooldridge)

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### PUBLISHED PAPERS

Transformations, Means, and Accurate Confidence Intervals, **Advances and Applications in Statistics**, 52(2), 121-144, 2018. (With O. Wong)  
Highly Accurate Inference on the Sharpe Ratio for Autocorrelated Return Data, **Journal of Statistical and Econometric Methods**, 7(1), 21-50, 2018. (With J. Qi and A.Wong)  
Interval Estimation for the Stress-Strength Reliability with Bivariate Normal Variables, **Open Journal of Statistics** 4, 630-640, 2014. (With P.Nguimkeu and A.Wong)  
Comparing the Means of Two Log-Normal Distributions: A Likelihood Approach, **Journal of Statistical and Econometric Methods** 3, 137-152, 2014. (With L. Jiang and A.Wong)

- Interval Estimation of the Stress-Strength Reliability with Independent Normal Random Errors, **Communications in Statistics: Theory and Methods**, doi:10.1080/03610926.2012.762399, 2013. (with P. Nguimkeu and A.Wong)
- Improved Likelihood-Based Inference for the MA(1) Model, **Journal of Statistical Planning and Inference** 143, 209-219, 2013. (With F. Chang and A.Wong),
- Incumbency Advantages in the Canadian Parliament, **Canadian Journal of Economics** 45(4), 1560-1585, 2012. (With C. Kendall),
- Inference for the Sharpe Ratio using a Likelihood-Based Approach, **Journal of Probability and Statistics**, doi:10.1155/2012/878561, 2012. (With Y.Liu and A.Wong),
- The Impact of Campaign Expenditure Limits on Campaign Spending and Election Outcomes, Report prepared for **Elections Canada**, 2011.
- Third-Order Inference for Autocorrelation in Nonlinear Regression Models **Journal of Statistical Planning and Inference**, 141, 3413-3425, 2011. (With P. Nguimkeu)
- Approximate Inference for the Multinomial Logit Model, **Statistics & Probability Letters**, 79, 237-242, 2009.
- Gender and Elections: An Examination of the 2006 Canadian Federal Election, **Canadian Journal of Political Science** 41(4), 987-1001, 2008.
- An Interesting Application of a Likelihood-Based Asymptotic Method, **Journal of Applied Probability and Statistics** 3, 275-285, 2008. (With Y. She, Y. Sun and A. Wong)
- Campaign Spending Limits, Incumbent Spending, and Election Outcomes, **Canadian Journal of Economics** 41(4), 1351-1374, 2008. (With K. Milligan) [*Recipient of the Harry Johnson Prize for best paper in the Canadian Journal of Economics in 2008*]
- Implementing Likelihood-Based Inference for Fat-Tailed Distributions, **Finance Research Letters** 5(1), 32-46, 2008. (With A. Wong)
- Improved Inference for First Order Autocorrelation using Likelihood Analysis, **Journal of Time Series Analysis** 29(3), 513-532, 2008. (With Y. Sun and A. Wong)
- The Impact of Campaign Spending on Votes in Multiparty Elections, **Review of Economics and Statistics** 89(3), 573-585, 2007.
- Highly Accurate Likelihood Analysis for the Seemingly Unrelated Regression Problem, **Journal of Econometrics** 127(1), 17-33, 2005. (With D.A.S. Fraser and A. Wong)
- Third-Order Inference for the Weibull Distribution, **Computational Statistics and Data Analysis** 49(2), 499-525, 2005. (With A. Wong)

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## **MAJOR GRANTS**

Social Sciences and Humanities Research Council of Canada (SSRHC), Standard Research Grant/Insight Grant: 2007-2010, 2010-2013, 2019-2024.

Natural Sciences and Engineering Research Council of Canada (NSERC), Discovery Grant: 2005-2008.

February, 2025

CURRICULUM VITAE  
ARTHUR J. ROBSON  
**Current Position**

Full Professor, Simon Fraser University

**Credentials**

Massachusetts Institute of Technology, 1970-1974, Ph.D. in Economics.

**Research Interests/Fields**

Evolutionary Basis of Economic Behavior

**Publications since 2018:**

1. “Certified Random: A New Order for Coauthorship” (with Debraj Ray) *American Economic Review* (2018) 108: 489-520.
2. “Evolved Attitudes to Idiosyncratic and Aggregate Risk in Age-Structured Populations” (with Larry Samuelson) *Journal of Economic Theory* (2019) 181: 44-81.
3. “Biological and Anthropological Foundations of Economic Behavior” (with Nikolaus Robalino) *Oxford Research Encyclopedia of Economics and Finance* (2019) DOI: 10.1093/acrefore/9780190625979.013.490.
4. “Evolution, Local Risk and Skewness Loving” (with Yuval Heller) *Theoretical Economics* (2021) 16, 403-424.
5. “Evolved Attitudes to Risk and Demand for Equity” (with Allen Orr) *Proceedings of the National Academy of Sciences of the USA* (2021) 118 (26) e2015569118.
6. “Infanticide and Human Self-Domestication” (with Erik Kimborough and Gord Meyers) *Frontiers in Psychology* (2021)  
<https://doi.org/10.3389/fpsyg.2021.667334>.

7. “Evolution of Risk Attitudes with Fertility Thresholds” (with Larry Samuelson) *Journal of Economic Theory* (2022)  
<https://doi.org/10.1016/j.jet.2022.105552>.
8. “Adaptive Utility” (with Lorne Whitehead and Nick Robalino) *Journal of Economic Behavior and Organization* (2023) 211, 60-81.
9. “Decision Theory and Stochastic Growth” (with Larry Samuelson and Jakub Steiner) *American Economic Review Insights* (2023) 5, 357-376.
10. “Risk Perception: Measurement and Aggregation” (with Nick Netzer, Jakub Steiner, and Pavel Kocourek) *Journal of the European Economic Association* (2024) <https://doi.org/10.1093/jeea/jvae053>.
11. “The Biological Basis of Preferences” (with Larry Samuelson) Econometric Society Monograph Series, published by Cambridge University Press *forthcoming*.

#### **Grants since 2018:**

SSHRC “Biological Basis of Economic Preferences” 2022-2027, \$157,781.

#### **Graduate Supervision since 2018**

Chief Supervisor PhD—

Leanna Mitchell “Three Essays in Evolutionary Economics” April 2021

Babak Sahragard, in progress.

Committee Member PhD—

Matheus Thompson Bandeira, in progress

# MARTIN I. SANTAMARIA

## Current Position

Senior Lecturer

## Credentials

2013	Ph.D. in Economics	University of Chicago
2006	M.A. in Economics	University of Chicago
2001	B.A. in Economics	Universidad Di Tella

## Research Interests/fields

Teaching, Indigenous reconciliation, macro, networks  
Publications since 2018

## Grants since 2018

1. “David and Cecilia Ting Lecture Series: Land & Water Rights, Indigenous Perspectives”, David and Cecilia Ting Endowment Grant, \$10,000. May 2023
2. “Land and water rights: indigenous perspectives Lecture series”, FASS Reconciling Curriculum grant, \$11,500. June 2023
3. “Course on Indigenous perspectives in economic development”, Lower Division (LD) Courses Advancing Decolonization/ Reconciliation Grant, FASS Reconciling Curriculum grant, \$1500. June 2023

Simon Fraser University  
[kevin\\_schnepel@sfu.ca](mailto:kevin_schnepel@sfu.ca)  
<https://kschnepel.github.io>

CURRENT POSITION	2022 - Associate Professor, Department of Economics, Simon Fraser University
CREDENTIALS	2013 Ph.D. Economics, University of California Santa Barbara 2008 M.A. in Economics, University of Colorado Denver 2002 B.A. in Accounting and Finance, Loyola University New Orleans
RESEARCH INTERESTS/FIELDS	Economics of Crime, Public Health
PUBLICATIONS SINCE 2018	<p><a href="#">“Does nothing stop a bullet like a job? The effects of income on crime”</a> (2024), with Jens Ludwig. <i>Annual Review of Criminology</i>, 8(1), pp.269-289.</p> <p><a href="#">“Opioid Use, Health and Crime: Insights from a Rapid Reduction in Heroin Supply”</a> (2024), with Tim Moore. <i>Review of Economics and Statistics</i>, <a href="https://doi.org/10.1162/rest_a_01453">https://doi.org/10.1162/rest_a_01453</a></p> <p><a href="#">“Buprenorphine/Naloxone vs Methadone for the Treatment of Opioid Use Disorder”</a> (2024), with Nosyk, Bohdan and others. <i>JAMA</i>, 332(21): 1822-1831.</p> <p><a href="#">“Comparative Analysis of Instrumental Variables on the Assignment of Buprenorphine/Naloxone or Methadone for the Treatment of Opioid Use Disorder”</a> (2024), with Homayra, Fahmida and others. <i>Epidemiology</i>, 35(2):p 218-231.</p> <p><a href="#">“Hanging Out with the Usual Suspects: Peer Effects and Recidivism”</a> (2022), with Steve Billings. <i>Journal of Human Resources</i>, 57(5): 1758-1788.</p> <p><a href="#">“The effect of a methadone reformulation on opioid agonist treatment outcomes: A population-based study in British Columbia, Canada, 2013-14”</a> (2022), with Krebs, Emanuel and others. <i>Journal of Substance Abuse Treatment</i>, 138: 108714.</p> <p><a href="#">“Diversion in the Criminal Justice System”</a> (2021), with Mike Mueller-Smith. <i>Review of Economic Studies</i>, 88(2): 883-936.</p> <p><a href="#">“Life After Lead: Effects of Early Interventions for Children Exposed to Lead”</a> (2018), with Steve Billings, <i>American Economic Journal: Applied Economics</i>, 10(3): 315-344.</p> <p><a href="#">“Good Jobs and Recidivism”</a> (2018), <i>Economic Journal</i>, 128(608): 447-469.</p>
GRANTS SINCE 2018	<p><a href="#">“Causal Determinants of Recidivism”</a> (2022), funded by the <i>Social Sciences and Humanities Research Council (SSHRC)</i></p> <p><a href="#">“Emulating target trials with big data to strengthen the evidence base for the clinical management of opioid use disorder ”</a> (2021), with Bohdan Nosyk (PI), Hitoshi Shigeoka and several others, funded by the <i>U.S. National Institute of Health (NIH)</i></p> <p><a href="#">“Drinking Water Contaminants and Infant Health”</a> (2019), with Heather Royer and Katherine Grooms, funded by the <i>U.S. National Institute of Health (NIH)</i></p>
GRADUATE SUPERVISION SINCE 2018	Stan Hetalo (2024 Ph.D. in Economics from Simon Fraser University, primary supervisor) Michael Topper (2024 Ph.D. in Economics from University of California Santa Barbara, committee member) Fei (Shelly) Yu (2024 Ph.D. in Economics from Simon Fraser University, committee member) Matthew McDonald (2023 Ph.D. in Economics from Simon Fraser University, primary supervisor) Minoru Higa (2023 Ph.D. in Economics from Simon Fraser University, committee member)

# XIAOTING SUN

## **Current POSITION**

**Simon Fraser University**

Assistant Professor, Department of Economics

**Vancouver, Canada**

July 2019 - Present

## **EDUCATION**

**University of California, Los Angeles**

*Ph.D., Economics, Department of Economics*

*M.A., Economics, Department of Economics*

**Los Angeles, USA**

June 2019

April 2015

**Peking University**

*M.A., Economics, National School of Development*

*B.A., Economics, National School of Development*

*B.S., Management, Department of Information Management*

**Beijing, China**

July 2013

July 2010

July 2010

## **RESEARCH INTERESTS**

Econometrics, Applied Econometrics

## **PUBLICATIONS SINCE 2018**

“Identification and Estimation in Many-to-One Two-Sided Matching without Transfers”, with YingHua He and Shruti Sinha, *Econometrica* (2024): 92(3), pp.749-774.

“Three Generations of Changing Gender Patterns of Schooling in China”, with Kathleen McGarry, *Journal of the Asian Pacific Economy* (2018), 1-22.

## **GRANTS AND AWARD SINCE 2018**

SSHRC Insight Development Grant, 2021

SFU New Faculty Start-Up Grant, 2019

UCLA Dissertation Year Fellowship, 2018

UCLA Travel Grant, 2018

# C U R R I C U L U M   V I T A E

**Simon D. Woodcock**  
**Spring 2025**

## **Current Positions**

Associate Professor, Department of Economics, Simon Fraser University, 2009-  
Academic Director, SFU Research Data Centre, 2022-  
Research Fellow, IZA (Institute for the Study of Labor), 2008-

## **Past Positions**

Director, Social Data Analytics Minor, Simon Fraser University, 2022-2024  
Senior Research Fellow, Católica-Lisbon School of Business and Economics, 2018  
Visiting Researcher, Banco de Portugal, 2018  
Visiting Researcher, Dept. of Economics, UCLA, 2017-2018  
Graduate Program Chair, Department of Economics, Simon Fraser University, 2011-2017, 2021-22  
Professeur Invité, Centre de Recherche en Économie et Statistique (CREST, Paris), 2010  
Associate Editor, Journal of Privacy and Confidentiality, 2006-2010  
Assistant Professor, Department of Economics, Simon Fraser University, 2003-2009.  
Economist, Longitudinal Employer-Household Dynamics (LEHD) Program, U.S. Census Bureau  
(contractor to the Urban Institute), 2001-2003.

## **Credentials**

Ph.D.        Department of Economics, Cornell University, August 2003  
              Dissertation: Essays on Labor Market Dynamics and Longitudinal Linked Data  
              John M. Abowd, Chair.

M.A.        Department of Economics, Cornell University, May 2002

M.A.        Department of Economics, University of British Columbia, August 1998  
              Thesis: The Public Sector Wage Differential in Canada: Evidence from Longitudinal Data

B.A. (Hons) Department of Economics, Simon Fraser University, May 1996

## Research Interests/fields

Labor economics, economics of education, applied econometrics, panel data econometrics, econometrics of longitudinal linked data, statistical disclosure limitation

## Publications since 2018

“Private schools and student achievement” (with Jane Friesen and Ebrahim Azimi), *Education Finance and Policy* 18(4), 2023: 623-653.

“The determinants of displaced workers’ wages: Sorting, matching, selection, and the Hartz reforms,” *Journal of Econometrics* 233(2), 2023: 568-595.

## Grants since 2018

Improving Health Economic Evaluation: Better Measures of Work Productivity Losses due to Illness in Canada, CIHR Project Grant, PI: Wei Zhang (UBC), 2018-

The effect of the Hartz labor market reforms on post-unemployment outcomes, sorting, and matching. SSHRC Small Research Grant, 2018.

## Graduate Supervision since 2018

Ph.D.       Maarij Rehman (Senior Supervisor, expected completion 2025)  
              Zhen Huang (Senior Supervisor, expected completion 2025)  
              Stan Hetalo (completed 2024)  
              Ricardo Cohn (Senior Supervisor, completed 2021)  
              Thomas Vigié (completed 2020)  
              Mahsa Akbari, (Senior Supervisor, completed 2019)  
              Yang Wang, (Senior Supervisor, completed 2018)  
              Duman Bahramirad (completed 2018)

M.A.       Fahima Laskar, “The Impact of the COVID-19 Pandemic on Gender Inequality in the Canadian Labour Market” (Senior Supervisor, 2024)