

CURRICULUM VITAE

Jasmina Arifovic
Department of Economics
Simon Fraser University
Burnaby, B.C. V5A 1S6
Canada
Tel. (604) 291-5603
FAX: (604) 291-5944
E-mail: arifovic@sfu.ca
Web:<http://www.sfu.ca/~arifovic.html>

Education

University of Chicago, Ph.D. (Economics) 1991
University of Chicago, M.A. (Economics) 1988
University of Sarajevo, B.A. (Economics) 1981

Positions

Professor, Simon Fraser University, Department of Economics, 2002 - present
Associate Professor, Simon Fraser University, Department of Economics, 1997 -
2002
Assistant Professor, Simon Fraser University, Department of Economics, 1993-1997
Assistant Professor, McGill University, Department of Economics, 1990-1993

Visiting Positions

California Institute of Technology, September 2002 - present, Research Associate
Federal Reserve Bank of St. Louis, Visiting Scholar, December 2003.
ERMES, University Pantheon-Assas (Paris II), Visiting Scholar, 2001 - 2003
Lecturer at the Third Trento Summer School in “Adaptive Economic Dynamics”,
organized by Peter Howitt, July 1 - 12, 2002.
California Institute of Technology, August 2001 - December 2001, Visiting
Associate Professor
California Institute of Technology, September 1999 - December 2000, Visiting
Associate Professor
European Central Bank, December 1999, Visiting Researcher
Federal Reserve Bank of St. Louis, December 1999, Visiting Researcher
International Monetary Fund, Research Department, August 1999, Visiting Scholar

University of Amsterdam, Center for Nonlinear Dynamics in Economics and Finance, May/June 1999, Visiting Scholar
International Monetary Fund, Research Department, April 1999, Visiting Scholar.
Pompeu Fabra University, September - December 1998, Visiting Scholar
Santa Fe Institute, May 1998, Visiting Scholar
University of Southern California, Fall 1996, Visiting Assistant Professor

Other Professional Activities

Director, *Centre for Research on Adaptive Behaviour in Economics*, CRABE, Department of Economics, Simon Fraser University, <http://www.sfu.ca/crabe>
Director, *Turing Tournament* <http://turing.ssel.caltech.edu>, California Institute of Technology.
Associate Member, *Behavioural Ecology Research Group*, Simon Fraser University.
Associate Editor, *Macroeconomic Dynamics*, since October 2004.

Publications

A. Refereed Articles

- “Heterogeneity and Evolution of Expectations in a Model of Currency Crisis”, joint with P. Masson, *Nonlinear Dynamics, Psychology and Life Sciences*, forthcoming.
- “Scaling Up Learning Models in Public Good Games”, joint with J. Ledyard, *Journal of Public Economic Theory*, 6, 2004, 205 - 238.
- “The Implementation of the Turing Tournament: A Report”, *Proceedings of the 8th Annual Workshop on Economics with Heterogenous Interacting Agents*, forthcoming, 2004.
- “Information and Dynamics: Sequences of Call Markets”, joint with J. Ledyard, *Information Systems and Frontiers*, 5, 2003.
- “Evolutionary Dynamics of the Transitions Across the Nash equilibria of a Tacit Coordination Game”, *European Journal of Economic and Social Systems*, 15, 2002, 109-129.
- Computer Testbeds and Mechanism Design: Provision of Public Goods, joint with J. Ledyard, *Proceedings of the Seventeen International Joint Conference on Artificial Intelligence*, 2001.
- “Evolutionary Dynamics of Currency Substitution”, *Journal of Economic Dynamics and Control*, 25, 2001, 395-417.

- “Using Genetic Algorithm to Select Architecture of a Feedforward Neural Network”, joint with R. Gencay, *Physica A*, 289, 2001, 574-594.
- “Performance of Rational and Adaptive Agents in the Environment with Persistent Fluctuations of the Exchange Rate”, *Macroeconomic Dynamics*, 5, 2001, 204-224.
- “Statistical Properties of Genetic Algorithm Learning in Macroeconomic Models”, joint with R. Gencay, *Journal of Economic Dynamics and Control*, 24, 2000: 981-1005.
- “Inflationary Deficit Financing in an Open Economy: Evolutionary Dynamics”, *The Santa Fe Institute Working Papers Series* 99-05-038, 1999.
- “Evolution of Communication in a Sender/Receiver Game of Common Interest with Cheap Talk”, joint with C. Eaton, *Journal of Economic Dynamics and Control*, 22, 1998, 1187-1207.
- “Stability of Equilibria under Genetic Algorithm Adaptation: an Analysis”, *Macroeconomic Dynamics* 2: 1-22, 1998.
- “The Transition from Stagnation to Growth: An Adaptive Learning Approach”, joint with J. Bullard and J. Duffy, *Journal of Economic Growth* 2:185-209, 1997.
- “The Behavior of the Exchange Rate in the Genetic Algorithm and Experimental Economies”, *Journal of Political Economy* 104:510-541, 1996.
- “Drift and Selective Imitation”, joint with C. Eaton and B. Morrison, *Proceedings of the Second International Conference on Evolutionary Programming*, San Diego CA, February 1996.
- “Genetic Algorithms and Inflationary Economies”, *Journal of Monetary Economics* 36: 219-243, 1995.
- “Coordination via Genetic Learning”, joint with C. Eaton, *Computational Economics* 8: 181-203, 1995.
- “Genetic Algorithm and the Cobweb Model”, *Journal of Economic Dynamics and Control* 18: 3-28, 1994.

B. Book Chapters

- “Laboratory Experiments with an Expectational Phillips Curve”, joint with T.J. Sargent in: D. Altig and B. Smith (eds.), *The Origins and Evolution of Central Banking*: Volume to inaugurate the Institute on Central Banking of the Federal Reserve Bank of Cleveland, to be published by Cambridge University Press, 2003, pp 23 - 56.
- “Exchange Rate Volatility in the Artificial Foreign Exchange Market”: in S.H. Chen (ed.), *Evolutionary Computation in Economics and Finance*, to be published by Springer-Verlag.

“Strategic Uncertainty and the Genetic Algorithm Adaptation” in: H. Amman, B. Rustem and A. Whinston (eds.), *Advances in Computational Economics*, Kluwer Publishers, 1996.

C. Surveys

“The Use of Evolutionary Models in Macroeconomic Environments”, *Macroeconomic Dynamics*, 4, 2000, 373-414.

Manuscripts and Work in Progress

“Currency Crisis: Evolution of Beliefs, Experiments with Human Subjects and Real World Data ”, joint with M. Maschek, manuscript, Simon Fraser University, November 2004.

“Social vs. Individual Learning - What Makes a Difference?” (with Michael Maschek), manuscript, September 2004, submitted to *Computational Economics*

“An Initial Impementation of the Turing Tournament to Learning in Two Person Repeated Games”, joint with R. McKelvey and S. Pevnitskaya, September 2004, manuscript, revised and resubmitted for *Games and Economic Behavior*.

“Evolution of Organizational Decisions”, joint with G. Ballot and M. Maschek, manuscript, Simon Fraser University, July 2004.

“Evolutionary Dynamics in Macroeconomic Models”, monograph, Cambridge University Press, forthcoming.

“Computer Testbeds and Mechanism Design: Application to the Class of Groves Ledyard Mechanisms for Provision of Public Goods”, joint with J. Ledyard, 2003, manuscript, submitted to the *Journal of Political Economy* .

“The Turing Tournament: A Method for Evaluating Social Science Theories”, joint with R. McKelvey, March 2003, manuscript.

“Learning in a Double Auction Trading Mechanism”, joint with J. Ledyard, work in progress.

“Finding Sunspot Processes in the Experiments with Human Subjects”, joint with G. Evans, work in progress

Conferences (Last 5 years)

10th International Conference of the Society for Computational Economics, Amsterdam, July 2004; Game Theory World Congress, Lumini, France, July 2004; Stanford Workshop on Collectives and Complex Systems, August 2003, invited speaker. Eighth Annual Workshop on Economics with Heterogenous Interacting Agents, invited speaker, May 2003; 8th International Conference of the Society

for Computational Economics, Aix-en-Provence, June, 2002; Seventeen International Joint Conference on Artificial Intelligence, Seattle, August 2001; Economic Science Association International Meetings, Barcelona, June 2001; Fall 2000 Decentralization Conference, T.J. Watson Research Center, IBM Corporation, Yorktown Heights, October 2000; Conference on Computational Social Science, University of California, Los Angeles, October 2000; Economic Science Association Regional Conference, Tucson, September 2000; Summer Camp 2000 - Workshop in International Economics and Finance, Universidad Torcuato Di Tella, Buenos Aires, August 2000;

Referee Work

American Economic Review, Canadian Journal of Economics, Computational Economics, Econometrica, Journal of Economic Behavior and Organization, Journal of Economic Dynamics and Control, Journal of Economic Surveys, Journal of Evolutionary Economics, Journal of International Economics, Journal of Money, Credit and Banking, Journal of Monetary Economics, Journal of Political Economy, Journal of Public Economics, Macroeconomic Dynamics, Review of Economic Studies, National Science Foundation, Social Sciences and Humanities Research Council

Public Service:

Social Sciences and Humanities Research Council of Canada, Standard Research Grants Committee Member, Committee 7 (Economics) 2000-2001.

Research Grants

National Science Foundation Grant, (Co-Principal Investigator with John Ledyard, "Turing Tournament", 2004-2006, US \$200,000.

Social Sciences and Humanities Research Council of Canada Grant (Principal investigator, with Thomas Sargent as co-investigator), "Experiments with Human Subjects in the Kydland and Prescott Environment", 2002-2005, \$90,000 (\$15,000 in Research Time Stipend)

National Science Foundation Grant, Information Technology Program (Co-Principal Investigator with John Ledyard), "Computer Testbeds and Mechanism Design", 2001-2004, US \$575,000.

Social Sciences and Humanities Research Council of Canada Grant, "Evolutionary Models of Bounded Rationality and Experimental Economics", 1999 - 2002, \$78,200 (\$15,000 in Research Time Stipend).

Social Sciences and Humanities Research Council of Canada Grant, "Transition Dynamics and Equilibrium Selection in Macroeconomic Models", 1996 - 1999, \$40,000.

President's Research Grant, Simon Fraser University, 1996 - 1998.

Social Sciences and Humanities Research Council of Canada Grant, 1992 - 1995.

Simon Fraser University President's Research Grant, 1993.

McGill University Research Grant, 1992.

Graduate Students:

Ruth Forsdyke, Ph.D. Simon Fraser University, August 2004, now Assistant Professor at the Department of Economics, Dalhousie University, title of the thesis: "Group Selection, Altruistic Preferences, and Economic Theory".

Bryan Yu, MA Simon Fraser University, August 2004, title of the MA research paper "Enforcement Learning: An Application of the Genetic Algorithm to the Economics of Tax Evasion".

Yiping Xu, Ph.D. student, Simon Fraser University, expected date for thesis defence June 2005, title of the thesis "Agent-based Modeling of Financial Markets".

Michael Maschek, Ph.D. student, Simon Fraaser University, expected date for thesis defence June 2005, title of the thesis "Learning and Adaptation in Macroeconomic Environments"

Sultan Orazbay, MA student, Simon Fraser University, expected date for thesis defence June 2005, title "Social vs Individual Learning in Matching Pennies Game: Comparison with Experiments with Human Subjects".