

Dr. Joanna Woo - Curriculum Vitae

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ACADEMIC HISTORY

Position	Lecturer & Director of Trottier Observatory	Jul. 2019-
Institute	Department of Physics, Simon Fraser University (SFU)	present
Position	Postdoctoral Fellow	Oct. 2017-
Institute	Department of Physics & Astronomy, University of Victoria (UVic)	Jun. 2019
Position	Postdoctoral Researcher	Oct. 2013-
Institute	Institute for Astronomy, ETH Zurich	Sep. 2017
Degree	Doctor of Philosophy in Astrophysics	Jan. 2014
Institute	Hebrew University of Jerusalem (HUJI), Jerusalem, Israel	
Degree	Master of Science, with specialisation in Astrophysics	Jun. 2006
Institute	Hebrew University of Jerusalem (HUJI), Jerusalem, Israel	
Degree	Bachelor of Science with Honours in Physics and Astronomy	May 2003
Institute	University of British Columbia (UBC), Vancouver, Canada	
Note	Alumna of Science One, an advanced intensive interdisciplinary science program for excellent first-year students	

AWARDS AND RECOGNITION

SFU Excellence in Teaching Award, Early Career (SFU)	2022
MERAC Award for young European Astrophysicists and Cosmologists (Swiss Society for Astronomy and Astrophysics)	2017
ACRU Postdoctoral Fellowship (declined)	2013
Rosenblum Prize for Excellence in Physics (HUJI)	2007
Goodman Prize for Influential Paper (HUJI)	2006
Freda Thau Memorial Scholarship (HUJI)	2003-2005
Dean's Honour List (UBC)	2000-2003
J Fred Muir Memorial Scholarship in Science (UBC)	2001
Outstanding Student Initiative Award (UBC)	1999

SUCCESSFUL GRANTS AND PROPOSALS

Co-PI: Compute Canada Resource Allocation Competition worth \$52139 CAD/yr	2022-2023
Co-PI: Compute Canada Resource Allocation Competition worth \$89706 CAD/yr	2019-2022
PI: 35 hours on MUSE at the VLT	2018
PI: 48 hours on MUSE at the VLT	2017
PI: 10 hours on MUSE at the VLT	2016
PI: 10 hours on MUSE at the VLT	2015

Dr. Joanna Woo - Curriculum Vitae

PROFESSIONAL MEMBERSHIPS

Canadian Astronomical Society - Société Canadienne D'Astronomie (CASCA)	2018-present
Astronomy Research Computing group (ARC)	2017-present
Maunakea Spectroscopic Explorer (MSE)	2018-present
Cosmic Assembly Near-infrared Deep Extragalactic Legacy Survey (CANDELS)	2013-present
International Astronomical Union (IAU)	2009-present
Dark Energy Survey (DES)	2014-2017
• Galaxy evolution science working group	
All-Wavelength Extended Groth Strip International Survey (AEGIS)	2010-2013

PROFESSIONAL ACTIVITIES

Undergraduate Curriculum Committee (SFU)	2023-present
Outreach, Recruitment and Student Engagement (SFU)	2021-present
Tenure and Promotion Committee (SFU)	2022
Organizer, BC Galaxy Summer Seminar Series (SFU, UVic, UBC)	2021
Tenure and Promotion Committee (SFU)	2021
Undergraduate Curriculum Committee (SFU)	2020
Astronomy Research Computing Committee (UVic)	2018
Women in Physics working group (UVic)	2018
Coordinator for the weekly Postdoc Lunch (ETH Zurich)	2013-2016
Coordinator for the weekly "Cosmolunch" group meetings (HUJI)	2009-2013
Coordinator for research projects for gifted high school students (HUJI, Belmonte Labs)	2007-2012

Peer Review

HST Cycle 31 Time Allocation Committee External Reviewer	2023
Gemini Telescope Time Allocation Committee	2023
Canada-France-Hawaii Telescope Time Allocation Committee	2019-present
Journal referee for MNRAS, ApJ and A&A	2013-present

ADVISING AND MENTORING

Undergraduate student Malcolm Pidosny (SFU)	2023-present
USRA student + undergraduate thesis Marcus Cowan (SFU)	2023-present
Industry volunteer Rohan Abraham (SFU)	2023-present
Dan Walters (Canadian Airforce)	2019-2022
USRA student Daniel Alder (SFU)	2020
High school student Julia Tubl (Riverside High School)	2020
Undergraduate student Finn Archinuk (UVic)	2019
Undergraduate student Marcus Merryfield (UVic)	2017-2018
Masters student Chris Beekman (ETH Zurich)	2014-2015
Masters student Keren Sarusi (HUJI)	2012
High school student Pavel Fadeev (Israeli High School for the Sciences and the Arts).	2009-2010
Awards: Third Prize in the Israel Contest for Young Scientists; the EIROforum Special Prize at the European Union finale of the same contest.	

Dr. Joanna Woo - Curriculum Vitae

TEACHING

Professional Development

- Instructional Skills Workshop (SFU) Apr 2022
- Rethinking Course Design Workshop (SFU) May 2020

Curriculum Development

- Development of the Undergraduate Python Curriculum (SFU) 2023-current
- Built a portable radio telescope + software for use in undergraduate teaching and outreach 2022
- Designed a new course to teach astronomical data analysis (PHYS 391, SFU) 2020

Instructor

- PHYS 190: Introduction to Astronomy (SFU) 2020-present
- PHYS 391: Introduction to Observational Astrophysics (SFU) 2023
- PHYS 390: Introduction to Cosmology and Astrophysics (SFU) 2022
- PHYS 101: Physics for the Life Sciences I (SFU) 2021
- PHYS 391: Introduction to Observational Astrophysics (SFU) 2021
- PHYS 101: Physics for the Life Sciences I (SFU) 2020
- PHYS 385: Introduction to Quantum Mechanics (SFU) 2019-20

Guest Lecturer

- PHYS 201: Physics Undergraduate Seminar: topics in modern physics research (SFU) 2020, 2021
- ASTR 150: Concepts in Modern Astronomy (UVic) 2018
- Galactic Astronomy, Graduate level (ETH Zurich) 2017

Teaching Assistant

- Galactic Astronomy: Graduate level (ETH Zurich) 2017
- Astrophysical Cosmology and Galaxy Evolution: Graduate level (ETH Zurich) 2014-2016
- Astronomy laboratory: Radio Interferometry of the Sun, Undergraduate level, (ETH Zurich) 2014-2017
- Advanced Cosmology and Galaxy Formation: Graduate level (HUJI) 2010-2012
- ASTR 310 Lecture and Laboratory for non-science students (UBC) 2002-2003
- PHYS 153 Laboratory for engineering students (UBC) 2002

CONFERENCES AND SEMINARS

- Annual contributed talk at the “Santa Cruz Galaxy Formation Workshop” (Santa Cruz, CA) 2008-2023
- Invited speaker**, Departmental Seminar Series, Hebrew University Oct 2021
- Invited colloquium speaker** at University of Washington Oct 2021
- Invited review** at “The Epoch of Galaxy Quenching”, (Cambridge, UK), Sep 2020
- Invited speaker** at the TRIUMF Colloquium series, (Vancouver, BC) Feb. 2020
- Talk on Machine Learning, Departmental Seminar Series, Simon Fraser University Nov. 2019
- Talk at Departmental Seminar Series, Cambridge University Apr. 2019
- Invited review** at the MaNGA Collaboration Meeting 2019, (Oxford, UK) Apr. 2019
- Invited review** at “The Life and Death of Star-forming Galaxies”, (Perth, Australia) Mar. 2019
- Invited review** at the Astronomy NWxSW meeting, (Vancouver, Canada) Nov. 2018
- Contributed talk at the KIAA Forum on “Gas in Galaxies”, (Beijing, China) Jun. 2018
- Contributed talk at the annual general meeting of the Canadian Astronomical Society - Société Canadienne D’Astronomie, (Victoria, Canada) May 2018

Dr. Joanna Woo - Curriculum Vitae

Contributed talk at the conference “Galaxy Evolution Across Time” (Paris, France)	Jun. 2017
Talk at Departmental Seminar Series, Cambridge University	Dec. 2016
Contributed talk at the conference “The Physics of Groups and Galaxy Properties therein” (Paris, France)	Dec. 2016
Talk at Departmental Seminar Series, University of Michigan	Nov. 2016
Talk at Departmental Seminar Series, California Institute of Technology	Nov. 2016
Talk at Departmental Seminar Series, Carnegie Observatories	Nov. 2016
Talk at Departmental Seminar Series, Yale University	Nov. 2016
Talk at Departmental Seminar Series, Space Telescope Science Institute	Nov. 2016
Talk at Departmental Seminar Series, Ohio State University	Oct. 2016
Contributed talk at the conference “The galaxy life-cycle: From activity to quiescence, and back, across cosmic times” (Venice, Italy)	Sep. 2016
Invited talk at a of the Swiss Society for Astrophysics and Astronomy General Assembly	Oct. 2016
Local Organising Committee member + speaker at the conference “Inaugural Zwicky Symposium: Confronting Ideas on Galactic Metamorphoses” (Braunwald, Switzerland)	Aug. 2015
Contributed talk at the conference “In the Footsteps of Galaxies: Tracing the Evolution of Environmental Effects” (Soverato, Italy)	Sep. 2015
Contributed talk at the conference “Star-formation, feedback and the formation of massive spheroids at high redshift” (Paris, France)	Mar. 2015
Contributed talk at the conference “Ellipticals in Venice” (Venice, Italy)	Oct. 2013
Contributed talk at the conference “Physical Processes of Galaxy Formation: Consensus and Challenges” (Aix-en-Provence, France)	Jul. 2013
Local Organising Committee member , speaker and poster presentation at the conference “Early Galaxy Formation in LCDM Cosmology Winter School” (Jerusalem, Israel)	Dec. 2012
Talk at the Astrophysics Colloquium, Hebrew University	Nov. 2012
Contributed talk at the AEGIS conference (Toledo, Spain)	Dec. 2009
Contributed talk at the conference “Star-forming Dwarf Galaxies: following Ariadne’s thread in the cosmic labyrinth” (Kolymbari, Crete, Greece)	Sep. 2008
Contributed talk, “Galaxy Evolution,” Institute for Advanced Studies (Jerusalem, Israel)	Jun. 2008

PUBLIC OUTREACH AND COMMUNITY LEADERSHIP

Public talks, streams and podcasts

Organizer, Starry Nights public viewing events at the Trottier Observatory	2019-present
Public Astronomy Workshops, SFU (2/year)	2019-present
Host of Starry Nights Live Stream Events, Trottier Observatory	2020-present
Speaker for Royal Astronomical Society of Canada, Vancouver	Jun 2022
Invited guest lecture, Regent College	Apr 2022
Speaker at Science Rendezvous, SFU	May 2021
Invited guest lecture, Regent College	Apr 2021
Saturday Morning Lectures, TRIUMF	Feb 2020
Cafe Scientifique Lecture, Surrey Public Library (Surrey)	2020
Lecturer at the Nobel Prize Lectures, Science World (Vancouver)	Jan 2020
Invited guest lecture, Regent College	Apr 2020
Saturday Morning Lectures, SFU Surrey Campus	Nov 2019
Speaker for Royal Astronomical Society of Canada, Victoria	Jun 2018
Physicist on the Titanium Physicists Podcast	Jan 2012

Dr. Joanna Woo - Curriculum Vitae

Media interviews

Radio interview on Spice Radio about Eclipses and Starry Nights	Oct 2023
TV interview on CTV Morning Live about Starry Nights and Astronomical Events	Sept 2023
TV interview with Global News about Starry Nights and Astronomical Events	Sept 2023
Radio interview on Spice Radio	Sept 2022
TV interview on CTV Morning Live about JWST First Data Release	July 2022
TV interview Global News Morning BC	May 2022
Radio interview with CBC (Vancouver and Vancouver Island)	Dec 2020
Radio interview with CKNW (Vancouver)	Nov 2020
TV interview with CityTV's Breakfast Television	Sep 2019

Other

Testified before a Canadian Parliamentary Committee on Expat Voting Rules	Jun 2015
Inspector and Referee/Judge at the annual FIRST Robotics Competition (Tel Aviv, Israel)	2006-2009
Volunteer guide on astronomy trips: Centre for Youth and Science (Jerusalem, Israel)	2005-2006
UBC Astronomy Club Founder and President (Vancouver, Canada)	2001-2003

HUMAN LANGUAGES

Fluent:	English, Hebrew
Conversational:	Cantonese, Arabic, Swiss German, French