

Jalina Bielaska Da Silva

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Education

- 2019-2021 **M.T. in Teaching (Intermediate/Senior) Biology & General-Science**
University of Toronto
- Research paper: Assessment and evaluation of moral and ethical reasoning in Canadian science classrooms
 - Additional Basic Qualification: Intermediate Mathematics
- 2017-2019 **Ph.D. Ecology and Evolutionary Biology (incomplete)**, University of Toronto
- Thesis: Genetic mechanisms of gametic isolation in *Caenorhabditis* nematodes
 - Supervisor: Dr. Asher D. Cutter
 - Courses taken: Philosophy and Methods, Professional Skills
- 2015-2017 **M.Sc. Biology**, University of Western Ontario
- Thesis: Investigating the role of *fruitless* in behavioural isolation between *Drosophila melanogaster* and *D. simulans*
 - Supervisor: Dr. Amanda J. Moehring
 - Courses taken: Genes and Genomes, Ethical Dilemmas
- 2011-2015 **B.Sc. Honours Specialization in Genetics** with Distinction, University of Western Ontario
- Honours Research Thesis Supervisor: Dr. Amanda J. Moehring
 - Relevant courses taken: Investigative Techniques in Genetics, Entomology, Genome Evolution, Regulation of Gene Expression, Genomics and Beyond: A Laboratory Course, Advanced Genetics, DNA: Genome Organization Mutagenesis & Repair, Evolutionary Genetics, Ecology, Developmental Biology, Analysis & Interpretation of Biological Data

Teaching and Mentoring Experience

Teaching

- 2019-2021 *Practicum Teaching*, TDSB & TCDSB
- 2018-2019 *Classroom Volunteer*, St Pius X School (Grades 7 & 8)
- 2018 *Arts & Science Educator*, Action Potential Lab (JK – Grade 4)
- 2018-present *Math & Science Tutor*, The Math Guru (Grades 2 – 12)
- 2018-2019 *Student Teacher Volunteer*, John Polanyi CI, Biotechnology course (Grade 11)
- 2018 *Guest Scientist*, Power Kids, The Power Plant Contemporary Art Gallery
- 2018 *Scientist guest speaker*, John Polanyi CI, Biotechnology course (Grade 11)
- 2018 *Scientist guest speaker*, St Pius X (Grades 6 & 7)
- 2018-present *Outreach Volunteer*, SciHigh, Lunenfeld-Tanenbaum Research Institute
- 2017-present *Classroom Outreach Volunteer*, Let's Talk Science, University of Toronto St George
- 2017-2018 *Graduate Teaching Assistant*, University of Toronto
- Undergraduate (Winter 2018): BIO 220 From Genomes to Ecosystems in a Changing World (labs)
 - Undergraduate (Fall 2017): BIO 120 Adaptation and Biodiversity (labs)
- 2017 **Western Certificate in University Teaching and Learning**

- 2017 Invited lecturer, “Transgenic techniques to answer questions in evolution and reproduction”, Biology 3467 Evolution and Reproduction, University of Western Ontario.
- 2017 Invited lecturer, “Advancing genetic techniques for dynamic imaging of living cells”, Biology 3316 Advanced Cell Biology, University of Western Ontario.
- 2016 Invited lecturer, “Species-specific mating behaviour”, Biology 3598 Behavioural Genetics, University of Western Ontario.
- 2016 *Attendee*, Perspectives on Teaching Conference, University of Western Ontario
- 2016 Teaching Assistant Training Program, University of Western Ontario
- 2015-2017 *Graduate Teaching Assistant*, University of Western Ontario
- Undergraduate (Winter 2017): Biology 3467 Evolution and Reproduction (class & tutorials)
 - Undergraduate (Fall 2016): Biology 3598 Behavioural Genetics (class & tutorials)
 - Undergraduate (Winter 2016): Biology 2581 Genetics (tutorials)
 - Undergraduate (Fall 2015 & 2016): Biology 2601 Organismal Physiology (labs and tutorials)

Mentoring

- 2019-present Mentor, GirlSySTEM Mentorship program
- 2019 *STEM Talk Speaker*, Metamorphosis Girls STEM Conference, John Polanyi CI
- 2018, 2019 *Speaker*, Soapbox Science Jr, Festival of Trees, Forest of Reading
- 2016 Mentorship in Teaching Program, University of Western Ontario
- 2015-2018 Mentoring of undergraduate students in research and/or lab duties:
- Amanda Peake, University of Toronto, EEB 397 research project student (2018)
 - Evelyn Cheng, University of Toronto, Undergraduate work study (2018)
 - Xin (Cindy) Zhang, University of Western Ontario, Undergraduate volunteer (2016-2017)
 - Chung Kong, University of Western Ontario, Undergraduate work study (2016-2017)
 - Caitlin Monaghan, University of Western Ontario, Undergraduate volunteer (2015-2016)

Service and Leadership

- 2018 *Co-organizer & Volunteer*, Science Rendezvous, EEB, University of Toronto
- 2018 *Judge*, Let’s Talk Science Challenge, University of Toronto
- 2017 *Volunteer*, Atwood Colloquium Search Committee, University of Toronto
- 2017 *Panel Member*, Undergraduate Alumni Focus Group, University of Western Ontario
- 2016 Invited panellist, MSc Workshop on Proposal Preparation, University of Western Ontario
- 2016 *Biology Graduate Student Organizer and Volunteer*, Fall Open House, University of Western Ontario
- 2016 *Entomology Volunteer*, ‘Booseum’ Halloween, London Children’s Museum

- 2016-2017 *Outreach Committee*, Society of Biology Graduate Students, University of Western Ontario
- 2016 *Organizing Committee*, Biology Graduate Research Forum, University of Western Ontario
- 2016 *Molecular Biology Volunteer*, SHAD program, University of Western Ontario
- 2016 *Insect and Arthropod Volunteer*, London elementary schools
- 2015-2016 *Social Committee*, Society of Biology Graduate Students, University of Western Ontario
- 2013-2014 *Crisis Line Volunteer*, London Sexual Assault Centre
- 2013-2015 *International Peer Guide and Team Leader*, International and Exchange Student Services, University of Western Ontario
- 2013 *Summer Volunteer*, The Hospital for Sick Children
- 2013 *Front Desk Volunteer*, Toronto Rape Crisis/Multicultural Centre
- 2012 *Frost Leader*, Elgin Hall, University of Western Ontario
- 2011-2014 *Volunteer*, Biology Undergraduate Society, University of Western Ontario

Workshops

- 2020 *Advocacy to Activism: A Blueprint to Equity*, OSSTF, University of Toronto
- 2020 *Empowering Educators: A Convening on Racial Equity in Education*, American University (online)
- 2020 *Teaching Climate Change in the Classroom*, National Geographic
- 2018 *Co-organizer*, Science Communication Workshop Series, University of Toronto
- 2018 *Foundations of Project Management*, Mitacs
- 2018 *Essentials of Productive Teams*, Mitacs
- 2018 *Supporting English and Multi-Language Users in the Classroom: TAs and Students*, University of Toronto
- 2017 *Science Communication Skills*, University of Toronto
- 2016 *Guiding Students Through Problem Solving in STEM*, University of Western Ontario
- 2016 *Avoiding the Blank Stare: Great Ideas for Engaging Students in Tutorials Across Disciplines*, University of Western Ontario
- 2016 *Using Online Activities to Build Students' Research Capacity*, University of Western Ontario
- 2016 *Getting Feedback on Your Students' Learning and Your Teaching*, University of Western Ontario
- 2016 *Netiquette: Communicating With Your Students*, University of Western Ontario

Publications

Bielaska Da Silva, J. 2018. Making the cut: a brief introduction to using CRISPR. *The EEB Quarterly*, 1, 1, 50-55.

Presentations

Bielaska Da Silva, J., Cutter, A.D. 2018. Genetic mechanisms of aggressive sperm-mediated gametic isolation in *Caenorhabditis* nematodes, Conference of the Canadian Society for Ecology & Evolution, Guelph, ON, CAN. [1st place winner]

Bielaska Da Silva, J. 2018. Elevator Pitch, Atwood Colloquium, University of Toronto, Toronto, ON, CAN.

- Bielaska Da Silva, J.,** Cutter, A. D. (Poster). 2018. Genetic mechanisms of gametic isolation in *Caenorhabditis*, AGA Evolutionary Quantitative Genetics Symposium, Toronto, ON, CAN.
- Bielaska Da Silva, J.,** Moehring, A. J. (Poster). 2017. Characterizing the genetic basis of behavioural isolation in *Drosophila simulans* using CRISPR/Cas9, 58th Annual *Drosophila* Research Conference, San Diego, CA, USA.
- Bielaska Da Silva, J.,** Moehring, A. J. 2016. Understanding the genetics basis of behavioural isolation between *Drosophila melanogaster* and *D. simulans*, Biology Graduate Research Forum, University of Western Ontario, London, ON, CAN. [3rd place winner]
- Bielaska Da Silva, J.,** Moehring, A. J. 2016. Characterizing the genetic basis of behavioural isolation in *Drosophila simulans* using CRISPR/Cas9, Ontario Ecology, Ethology, and Evolution Colloquium, University of Toronto, Toronto, ON, CAN. [1st place winner]
- Bielaska Da Silva, J.,** Moehring, A. J. 2015. Candidate genes for behavioural isolation in *Drosophila simulans*, Biology Graduate Research Forum, University of Western Ontario, London, ON, CAN.
- Bielaska Da Silva, J.,** Moehring, A. J. 2015. Testing candidate genes for female species-specific mate preference in *Drosophila simulans*, Biology and Environmental Science Research Day, University of Western Ontario, London, ON, CAN. [Winner]
- Bielaska Da Silva, J.,** Moehring, A. J. 2015. Testing candidate genes for female species-specific mate preference in *Drosophila simulans*, Ontario Biology Day, Carleton University, Ottawa, ON, CAN.

Scholarships and Awards

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| 2018 | Best Talk at the Conference of the Canadian Society for Ecology & Evolution |
| 2018 | FCRF-L'Oreal Canada Women in Science Fellowship |
| 2018 | Best Judge, Let's Talk Science Challenge, University of Toronto |
| 2017 | A. Murray Fallis Graduate Award in Zoology |
| 2016 | Fall Travel Award, Biology Department |
| 2016 | Honourable Mention for Best Short Talk at Biology Graduate Research Forum |
| 2016 | Best Graduate Lightning Talk at Ontario Ecology, Ethology, and Evolution Colloquium |
| 2015 | Outstanding Undergraduate Thesis Presentation |
| 2012-2015 | Dean's Honour List |
| 2011 | University of Western Ontario Scholarship of Distinction |

Certifications

Wilderness and Remote Standard First Aid – C