

SILU WANG

Department of Zoology, UBC
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EDUCATION

- PhD Zoology**
University of British Columbia (UBC), expected 2019. Advisor: Darren Irwin
- MA Ecology, Evolution & Behavior; Computer Science (minor)**
University of Texas at Austin (UT Austin), 2014. Advisor: Molly Cummings
- BS Behavior, Genetics & Neurobiology; Applied Statistics (minor)**
University of Toronto (U of T), *high distinction*, 2011. Advisor: Marla Sokolowski

PUBLICATIONS

- Wang S. & Sokolowski M. B.** 2017. Aggressive behaviours, food-deprivation and the foraging gene. *Royal Society Open Science*. 4:170042.
- Wang S. Cummings M. E. & Kirkpatrick M. A.** 2015. Coevolution of male courtship and sexual conflict characters in mosquitofish. *Behavioral Ecology*. 26:1013-1020.
- Wang S.** 2014. Mating evolution in *Gambusia* (Poeciliidae): an integration of behavior, molecules and morphology (Master's Thesis). University of Texas, Austin, TX.
- Wang S.M.T. Ramsey M. & Cummings M. E.** 2014. Plasticity of the mate choice mind: courtship evokes choice-like brain responses in females from a coercive mating system. *Genes, Brain and Behavior*. 13:365-375.

MANUSCRIPTS (*equal contribution).

- Wang S. Rohwer S. Delmore K. Irwin DE.** Cross-decades stability of an avian hybrid zone. *In revision*.
- Wang S. Rohwer S., de Zwaan D. R. Mackenzie J. Irwin DE.** Stable selection on a pleiotropic locus Underlying divergent plumage traits between two warbler species. *In review*.
- Wang S. Ore M. Mikkelsen E. Rohwer S. Irwin DE.** Mito-nuclear complexes in ancient hybrid warbler populations. *In prep*.
- Wang S. de Zwaan D. R. Mackenzie J., Irwin DE.** Badges of status fades in a *Setophaga* hybrid zone. *In prep*.
- Wang S.* MacPherson A.* Otto S. P. Rieseberg L. Yamaguchi R. Irwin DE.** Parental population isolation and range expansion before secondary contact leads to greater hybrid relative fitness. *In prep*.

ORAL PRESENTATIONS (*best talk)

- 2019** The Society for the Study of Evolution meeting, Providence, Rhode Island, USA.
- 2019*** Eco-Evo Retreat, Brackendale, BC, Canada.
- 2018** International Ornithological Congress meeting, Vancouver, BC, Canada.
- 2017** The Society for the Study of Evolution meeting, Portland, OR, USA.
- 2017** Canadian Society for Ecology and Evolution meeting, Victoria, BC, Canada.
- 2016** North American Ornithological Congress, Washington, DC, USA.
- 2015** American Ornithologists' Union & Cooper's Ornithological Society meeting, OK, USA.
- 2014** International Ornithological Congress, Tokyo, Japan.
- 2014** American Society of Naturalists meeting, Pacific Grove, CA, USA.
- 2014** Society for Integrative and Comparative Biology Meeting, Austin, TX, USA.

- 2012** The Society for the Study of Evolution, Ottawa, ON, Canada.
2012 Animal Behavior Society meeting, Albuquerque, NM, USA.
2011 American Ornithologists' Union, Jacksonville, FL, USA.

POSTERS (*best poster)

- 2019*** The Society for the Study of Evolution, Providence, RI, USA.
2018 Evo-Wibo Conference, Port Townsend, WA, USA.
2018 Evo-Eco Department Retreat, Blackendale, BC, Canada.
2018* UBC Zoology Graduate Spring Symposium, Vancouver, BC, Canada.
2017 The Society for the Study of Evolution Meeting, Portland, OR, USA.
2017* UBC Zoology Graduate Symposium, Vancouver, BC, Canada.
2010 Ontario Biology Day, Toronto, ON, Canada.
2010 Crime Prevention Conference, Mississauga, ON, Canada.

INVITED PRESENTATION

- 2013** Lunch seminar, School of Geological Science, UT Austin.
2013 Brain, Behavior & Evolution (BBE) Seminar, UT Austin.
2013 Department Seminar, University of Oklahoma.
2012 BBE Seminar, UT Austin.
2012 Integrative Biology Graduate Symposium, UT Austin.

AWARDS GRANTS & HONORS

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| 2019 | Ruth Patrick Student Poster Award, American Society of Naturalists | \$1,000 |
| 2019 | Zoology Travel Award, Department of Zoology, UBC | \$500 |
| 2019 | Best Talk Award, Eco-Evo Retreat, Brackendale, BC | |
| 2018-2019 | Zoology Graduate Fellowship, UBC | \$16,000 |
| 2018 | Gibson's citation, Green College, UBC | |
| 2018 | Best Poster Award, Zoology Graduate Spring Symposium | \$150 |
| 2018 | Graduate Student Travel Fund, UBC | \$500 |
| 2017 | Best Poster Award, Zoology Graduate Spring Symposium | \$150 |
| 2016 | Werner and Hildegard Hesse Research Award in Ornithology | \$2,500 |
| 2015-2018 | Postgraduate Scholarship D (PGS D) | |
| | Natural Sciences and Engineering Research Council of Canada (NSERC) | \$63,000 |
| 2015 | Werner and Hildegard Hesse Research Award in Ornithology | \$3,500 |
| 2014 | Biodiversity Research: Integrative Training & Education Grant, UBC | \$4,000 |
| 2014 | R Howard Webster Foundation Fellowship, UBC | \$2,500 |
| 2014-2018 | Four Year Doctoral Fellowship, UBC | \$18,000 |
| 2014 | Student Travel grant, International Ornithological Congress | \$500 |
| 2014 | Travel grant, Ecology, Evolution and Behavior, UT Austin | \$1,000 |
| 2012-2013 | Texas Ecolab Research Grant | \$3,000 |
| 2011 | Student Travel Award, American Ornithologists' Union | \$600 |
| 2011 | Ontario Graduate Scholarship, Ministry of Training, Colleges and Universities of Ontario | \$6,000 |
| 2011 | Excellence Award in the Natural Sciences and Engineering, U of T | \$5,600 |
| 2010-2011 | Honor Roll in Department of Mathematical and Computational Sciences, U of T | |
| 2010 | Student Membership Award, American Ornithologists' Union | |

PROGRAMMING EXPERIENCE

- R:** Population Genomics - admixture mapping, spatial genetics
Phylogenetics - ancestral reconstruction, trait coevolution
Network Modeling - subsampling vertices and quantifying features
Frequentist & Bayesian statistics
- UNIX:** Regular expressions related to parsing sequences
SAS - Structural Equation Modeling
- Python:** Sequence processing & alignment
Maximum likelihood estimates search

TEACH-ASSISTANCE EXPERIENCE

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| • BIOL336: | Fundamentals of Evolution Biology, UBC | 2018 Spring and Fall |
| • BIO321: | Introduction to Computational Biology, UT Austin | 2014 Spring |
| • BIO370: | Evolution, UT Austin | 2012 Spring, 2013 Fall |
| • BIO311: | Introductory Biology, UT Austin | 2012 Fall |
| • BIO206: | Structure & Function of Organisms, UT Austin | 2012 Summer |
| • BIO318: | Biostatistics, UT Austin | 2011 Fall |
| • STA257: | Probability and Statistics I, U of T | 2010 Fall |
| • BIO329: | Mammalian Biology field section, U of T | 2009 Fall |

MENTORING EXPERIENCE

Korey Conley: Fall 2013; Ruth Midgley: Summer 2015; Else Mikklesen: Summer 2016-Summer 2017; Jacqueline Mackenzie: Summer 2017.

OUTREACH

Community Service

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| 2015-18 | Biodiversity Birding Group Coordinator, Biodiversity Research Center, UBC |
| 2015-16 | Art Committee, Co-Chair, Green College, UBC |
| 2017-18 | Sustainability Committee, Co-Chair, Green College, UBC |
| 2017-19 | Biodiversity Seminar Committee, A/V coordinator, Biodiversity Research Center, UBC |
| 2018 | Dining Society Treasurer, Green College, UBC |
| 2019 | Nature Illustration Club Coordinator, Biodiversity Research Center, UBC |
| 2019 | Girls in Science Technology Engineering and Math (STEM), mentor, Templeton Secondary School, Vancouver |

Public lectures

- Sassy tastes or sexy traits: stories about coevolution of female preference and male traits. Darwin's 203rd Birthday, **May 11th 2012**, Texas Memorial Museum.
- The Scales of Existence: A Journey from Population to Molecules (Collaborated with Isobel Mouat, Microbiology and Immunology; Kelsey Huus, Microbiology and Immunology; J. Andrew Alexander, Biochemistry and Molecular Biology), **Nov. 16th 2015**, UBC.
- The Hermits' Expeditions: Stories About The Habitat, Flora, Fauna And People In Northwest America, **Sep. 26th 2016**, Green College, UBC.
- On the Speciation of Species: the fantastic process underlying biodiversity, **Mar. 26th 2018**, Green College, UBC.