

SILU WANG

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CURRENT POSITION

Postdoc Jan. 2020 - *present* University of California, Berkeley
Mentor: Dr. Doris Bachtrog
Project: *Speciation genomics in Drosophila hybrid swarms*

EDUCATION

PhD Zoology
University of British Columbia (UBC), defended in December 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. Rohwer S. Delmore K. Irwin DE. Cross-decades stability of an avian hybrid zone. *In press. Journal of Evolutionary Biology*.
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., de Zwaan D. R. Mackenzie J. Irwin DE. Selection on a pleiotropic plumage gene region underpins early differentiation between two warbler species. *In revision*.
DOI: <https://doi.org/10.1101/853390>
Wang S. Ore M. Mikkelsen E. Rohwer S. Irwin DE. The correlated evolution of mito-nuclear genes underlying climate adaptation of a warbler species complex. *In prep*.
Wang S. de Zwaan D. R. Mackenzie J., Irwin DE. Badges of status fades in a *Setophaga* hybrid zone. *In prep*.
MacPherson A.* **Wang S.*** 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

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	
2018	Graduate Student Travel Fund, UBC	\$500
2017	Best Poster Award, Zoology Graduate Spring Symposium	
2016	Werner and Hildegard Hesse Research Award in Ornithology	\$2,500
2015-2018	Postgraduate Scholar ship 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

- **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

- 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.