**SILU WANG**

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**CURRENT POSITION**

**Postdoc** Jan. 2020 - *present* University of California, Berkeley (UC 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**

Price S. Schumer M. Young R.L. **Wang S.** & Cummings M. 2020. Immune genomic response

associated with preference behavior: an examination in a freshwater fish. Journal of

Immunology. 204: 92.34.

**Wang S.** Rohwer S. Delmore K. Irwin DE. 2019*.* Cross-decades stability of an avian hybrid zone.

*Journal of Evolutionary Biology.* 32: 1242-1251.

**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](https://repositories.lib.utexas.edu/bitstream/handle/2152/31853/WANG-THESIS-2014.pdf?sequence=1)). 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***

**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 review*](doi:%20https://doi.org/10.1101/853390).

**Wang S.** Ore M. Mikklesen E. Lee-Yaw, J. Rohwer S. Irwin DE. Signatures of mito-nuclear climate

adaptation in a warbler species complex. [*In review*](doi:%20https://doi.org/10.1101/2020.04.06.028506).

**Wang S.** Coevolution of song and egg coloration: multimodal mating signals? [*Submitted*](https://www.biorxiv.org/content/10.1101/2020.04.26.062927v1)*.*

**Wang S.** de Zwaan D. R. Mackenzie J., IrwinDE. Badges of status fades in a *Setophaga* hybrid zone.

*In prep.*

MacPherson A. **Wang S.** P. Rieseberg L. Yamaguchi R. Otto S. 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\*** UBCZoology 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, Missisauga, ON, Canada.

**INVITED PRESENTATION**

**2019** Center of Theoretical Evolutionary Genomics seminar, UC Berkeley.

**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***

2020-present Speciation & Introgression Genomics Discussion Group, coordinator, IB, UCB

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, **May11th 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.