Jeffrey S. Groh

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October 2026

EDUCATION & APPOINTMENTS

Postdoctoral Fellow, Miller Institute for Basic Research in Science, UC Berkeley 2025-present
Advisors: Dr. Noah Whiteman, Dr. Benjamin Blackman

Ph.D., Population Biology, University of California, Davis 2019-2025
Dissertation: "On Wavelets and Walnuts: Evolutionary Genomics of Hybridization and Heterodichogamy." Advisor: Dr. Graham Coop

Occupational Trainee, Ortiz-Barrientos Lab, University of Queensland 2018-2019

B.Sc. (Honours) Plant Biology, University of British Columbia 2014-2018
Honours thesis: "On the origin of orphan hybrids between *Aquilegia flavescens* and *A. formosa*"
Honours thesis advisor: Dr. Quentin Cronk
Undergraduate Researcher, Schluter Lab, 2016-2017

PUBLICATIONS

*PDFs of all listed publications available at https://jgroh.github.io

Groh JS (2026). Heterodichogamy. *Current Biology* 36: R1207-R1209. https://www.cell.com/current-biology/fulltext/S0960-9822(26)01185-1.

Groh JS, Soares dos Santos MF, Avila de Dios E, Ackerman G*, Solares E, Iturrieta RA, Focht E, Seymour D, Gaut BS, Arpaia ML, and Coop G (2026). Balanced polymorphism in a floral transcription factor underlies an ancient rhythm of daily sex alternation in avocado. *PNAS* 123: e26068761. https://doi.org/10.1073/pnas.2606876123.

Roesti, M, **Groh JS**, Jones F, Peichel CL, and Schluter D (2026). Reply to MacColl: Repeated evolution from standing genetic variation. *PNAS* 123: e2605003123. https://doi.org/10.1073/pnas.2605003123.

Groh JS, Ackerman G*, Wenzel M, and Coop G (2025). Distinct haplotypes and reversed dominance at a single-gene balanced polymorphism controlling heterodichogamy in two genera of wingnuts. *Current Biology* 35: 5192-5209.e11. https://doi.org/10.1016/j.cub.2025.09.061.

Roesti M, **Groh JS,** Jones F, Peichel CL, and Schluter D (2025). A species interaction kickstarts ecological speciation in allopatry. *PNAS* 122: e2506625122. https://doi.org/10.1073/pnas.2506625122.

Groh JS, Vik DC*, Davis M, Stevens KA, Brown PJ, Langley CH, and Coop G (2025). Ancient structural variants control sex-specific flowering time morphs in walnuts and hickories. *Science* 387: eado5578. [Cover article]. DOI: 10.1126/science.ado5578.

Langdon QK, **Groh JS,** Aguillon SM, Powell DL, Gunn T, Payne C, Baczenas JJ, Donny A, Dodge TO, Du K, Schartl M, Ríos-Cárdenas O, Gutiérrez-Rodríguez C, Morris M, and Schumer M (2024). Swordtail fish hybrids reveal that genome evolution is surprisingly predictable after initial hybridization. *PLoS Biology* 22: e3002742. https://doi.org/10.1371/journal.pbio.3002742.

Groh JS and Coop G (2023). The temporal and genomic scale of selection following hybridization. *PNAS* 121: e2309168121. https://doi.org/10.1073/pnas.2309168121.

James ME, Allsopp RN*, **Groh JS,** Kaur A, Wilkinson MJ, and Ortiz-Barrientos D. (2023). Uncovering the genetic architecture of parallel evolution. *Molecular Ecology* 32: 5575-5589. https://doi.org/10.48610/40dec7a.

Roesti M, **Groh JS,** Blain SA, Huss M, Rassias P, Bolnick DI, Stuart YE, Peichel CL, and Schluter D (2022). Species divergence under competition and shared predation. *Ecology Letters* 26: 111-123. [Cover article]. https://doi.org/10.1111/ele.14138.

James ME, Arenas-Castro H, **Groh JS,** Allen SL, Engelstädter J, and Ortiz-Barrientos D (2021). Highly replicated evolution of parapatric ecotypes. *Molecular Biology and Evolution* 38: 4805-4821. https://doi.org/10.1093/molbev/msab207.

Groh JS and Cronk QCB (2020). Phenotypic evidence for an extensive mosaic hybrid zone between two species of columbine, *Aquilegia flavescens* and *A. formosa*. *Botany* 98: 459–467. https://doi.org/10.1139/cjb-2020-0015.

Groh JS, Percy DM, Björk CR, and Cronk QCB (2019). On the origin of orphan hybrids between *Aquilegia formosa* and *Aquilegia flavescens*. *AoB Plants* 11: ply071. [Editor's Choice]. https://doi.org/10.1093/aobpla/ply071.

*Undergraduate mentee

FELLOWSHIPS AND RESEARCH GRANTS

Miller Postdoctoral Research Fellowship, UC Berkeley ($325,000)	2025-2028
Rausser Research Seed Grant, UC Berkeley College of Natural Resources ($10,000)	2026
Davis Botanical Society Research Grant ($4,000)	2024, 2025
National Science Foundation Graduate Research Fellowship ($138,000)	2019-2024
UC Natural Reserves Graduate Student Research Grant ($2,500)	2024
American Society of Plant Taxonomists Research Grant ($1,200)	2024
Center for Population Biology Research and Travel Award, UC Davis ($1,500)	2024
Dean's Distinguished Graduate Fellowship, UC Davis ($27,000)	2019
American Australian Association Education Fellowship ($30,000)	2018
Mackenzie King Open Scholarship ($13,000, declined due to funding overlap)	2018
International Undergraduate Summer Research Award, UBC ($6,000)	2017
Botany and Zoology Student Research Award, UBC ($1,000)	2017
Walter Lewis Research Award in Plant Biodiversity, UBC ($1,000)	2017
National Science and Engineering Research Council SURE Award ($4,500)	2016

AWARDS & DISTINCTIONS

James Crow Early Career Research Award (Finalist), Genetics Society of America	2026
Merton Love Award*, Department of Evolution & Ecology, UC Davis	2025
C.K. Choi Award and Wesbrook Scholar**, UBC	2017
International Community Achievement Award, UBC	2015
Outstanding International Student Award, UBC	2014
International Major Entrance Scholarship, UBC	2014

* "for Outstanding Dissertation in Ecology and Evolution"
** "UBC's most prestigious designations offered to senior students"

PRESENTATIONS

Invited Talks

California Academy of Sciences. San Franciso, CA USA 2026
Institute of Ecology & Evolution, University of Bern. Bern, Switzerland 2026
Zoology and Evolutionary Biology Institute, University of Basel. Basel, Switzerland 2026
TiBE-STRiVE: Evolutionary Role of Structural Genomic Variation. Vila do Conde, Portugal (*Plenary) 2026
James F. Crow Early Career Researcher Award Symposium, PEQG. Asilomar, CA USA 2026
Integrative Biology Department, UC Berkeley. Berkeley, CA USA 2026
Evolution of Mating Systems guest lecture, University of Lille (virtual) 2025
University and Jepson Herbaria, UC Berkeley. Berkeley, CA USA 2025
Center for Theoretical and Evolutionary Genetics, UC Berkeley. Berkeley, CA USA 2025
Merton Love Award Seminar, UC Davis. Davis, CA USA 2025
Wright Lab, University of Toronto. Toronto, ON Canada 2024
Schumer Lab, Stanford University. Stanford, CA USA 2024

Contributed Talks

Department of Molecular and Cell Biology retreat, UC Berkeley. Asilomar, CA USA 2025
Evolution Meeting. Athens, GA USA 2025
Virtual Evolution Meeting 2025
Sex Determination Symposium, CSEE. Vancouver, BC Canada 2024
The Allied Genetics Conference, Washington, DC USA 2024
Evolution Meeting, Albuquerque, NM USA 2023
Bay Area Population Genetics Conference, Stanford University, Stanford, CA USA 2022
Center for Population Biology, UC Davis, Davis, CA USA 2021
Virtual Evolution Meeting 2020

Poster Presentations

Department of Plant and Microbial Biology retreat, UC Berkeley, Berkeley CA USA (*best poster pitch) 2026
Department of Molecular and Cell Biology retreat, UC Berkeley, Berkeley CA USA 2026
Bay Area Population Genetics Conference, Stanford University, Stanford, CA USA (*best poster) 2025
Society for Molecular Biology and Evolution Conference, Puerto Vallarta, Mexico 2024
Population, Evolutionary and Quantitative Genetics Conference, Asilomar, CA USA 2022
Evolution Meeting, Providence, RI USA 2019

TEACHING & MENTORSHIP

Teaching Assistant, EVE 102 Population & Quantitative Genetics, UC Davis 2024
Mentor, Ecology & Evolution Graduate School Preview Program, UC Davis 2020-2024
Instructor of Record, EVE 100 Introduction to Evolution, UC Davis 2023
Teaching Assistant, EVE 100 Introduction to Evolution, UC Davis 2021

Undergraduate mentees

Felix Vik, enrolled Ph.D. program in Integrative Biology, Oregon State University
Jennifer Lee, enrolled in Master's program in Marine Biology and Ecology, University of Miami
Gracie Ackerman, Makayla Davis, Haley Hoefer, Aariya Shergill, Natalie Su, Kai Pessanha, Emma Konecna, Xinyu Song

SERVICE, LEADERSHIP & OUTREACH

Miller Institute Symposium Planning Committee 2026
Meet the Millers, for UC Berkeley undergraduates interested in STEM careers 2026

Co-organizer, Evolutionary Genomics Reading Group, UC Berkeley	2025-2026
'Ask a Geneticist' at 'Expect Greater' UC Davis fundraising event	2024
Lead organizer, Bay Area Population Genetics Conference, UC Davis	2023
DEIJ Leader Fellow, College of Biological Sciences, UC Davis	2023
Student Diversity Committee chair, Population Biology Graduate Group, UC Davis	2022-2023
Student Representative Organizer, Population Biology Graduate Group, UC Davis	2022-2023
Steering Committee student representative, Population Biology Graduate Group, UC Davis	2021-2022
Graduate Student Conference lead organizer, Population Biology Graduate Group, UC Davis	2019
Scholarship application reviewer, American Australian Association	2019-present

I have peer-reviewed manuscripts for:
Science, *PNAS, Genetics, New Phytologist, Molecular Ecology, BMC Genomics, G3, Taxon, Ecology & Evolution*

SELECTED MEDIA COVERAGE

Scientific American. July 29, 2026. "Avocado flowers switch sex daily – now we know why." By Jeanne Timmons. https://www.scientificamerican.com/article/avocado-flowers-switch-sex-daily-now-we-know-why/. Coverage of Groh et al. 2026, *PNAS*.

The Wall Street Journal. Aug 6, 2026. "Breakthrough on how avocado trees change sexes could cut years from breeding cycle." By Roshan Fernandez. https://www.wsj.com/science/biology/avocado-sex-change-study-6fdfab1d. Coverage of Groh et al. 2026, *PNAS*.

Science. In Other Journals. Sept 17, 2026. "Balancing Acts." By Corinne Simonti. DOI: 10.1126/science.aem4011. Coverage of Groh et al. 2026, *PNAS*.

SFGATE. Jul 31, 2026. *"*Groundbreaking discovery could remake California's avocado breeding*."* By Anna FitzGerald Guth. Coverage of Groh et al. 2026, *PNAS*.

Current Biology, Dispatch. Nov 3, 2025. "Evolution: Disassortative mating going nuts." By Contreras-Garrido A and Castric V . https://www.cell.com/current-biology/fulltext/S0960-9822(25)01301-6. Coverage of Groh et al. 2025, *Curr. Biol.*

Trends in Genetics, Spotlight. Oct 21, 2026. "An ancient genetic switch controls avocado flowering time." By Jose I. Hormaza. https://www.cell.com/trends/genetics/fulltext/S0168-9525(26)00245-3. Coverage of Groh et al. 2026, *PNAS*.

IFL Science. Jan 7, 2025. "Walnut Trees' Flowers Have Been Changing Sex Every Season For 40 Million Years." By Rachael Funnell. https://www.iflscience.com/walnut-trees-flowers-have-been-changing-sex-every-season-for-40-million-years-77513. Coverage of Groh et al. 2025, *Science.*

KCRW (NPR station in Los Angeles). Aug 5, 2026. Interviewed for Press Play with Madeleine Brand. Recording at https://www.kcrw.com/shows/press-play-with-madeleine-brand/stories/jane-schoenbruns-campy-and-surrealistic-take-on-teen-slasher-movies. Coverage of Groh et al. 2026, *PNAS*.

UC Davis College of Biological Sciences. July 29, 2026. "Study Reveals How Avocados Reverse Sexes Throughout the Day." By Liana Wait. https://biology.ucdavis.edu/news/study-reveals-how-avocados-reverse-sexes-throughout-day. Coverage of Groh et al. 2026, *PNAS*.

UC Davis College of Biological Sciences. Jan 6, 2025. "Genetics of Alternating Sexes in Walnuts." By Andy Fell. https://biology.ucdavis.edu/news/genetics-alternating-sexes-walnuts. Coverage of Groh et al. 2025, *Science*.