

Jeffrey S. Groh

Curriculum Vitae

jpgroh@berkeley.edu

EDUCATION

- ◆ Ph.D., Population Biology Graduate Group, University of California, Davis (2019 – 2025)
 - Ph.D. thesis advisor: Graham Coop
 - Dissertation: “On Wavelets and Walnuts: Evolutionary Genomics of Hybridization and Heterodichogamy”
- ◆ B.Sc., Plant Biology; Minor: Music, University of British Columbia (2014 – 2018)
 - Undergraduate honors thesis advisor: Quentin Cronk
 - Thesis: “On the origin of orphan hybrids between *Aquilegia flavescens* and *A. formosa*”

APPOINTMENTS

- ◆ Postdoctoral Fellow, Miller Institute for Basic Research in Science, UC Berkeley (2025-2028)
Advisors: Noah Whiteman (Molecular & Cell Biology, Integrative Biology)
Ben Blackman (Plant & Microbial Biology, Integrative Biology)
- ◆ Graduate Student Researcher, Coop Lab, Department of Evolution & Ecology, UC Davis (2019 – 2025)
- ◆ Occupational Trainee, Ortiz-Barrientos Lab, University of Queensland (2018-2019)
- ◆ Undergraduate Researcher, Cronk Lab, Botany Department, University of British Columbia (2017-2018)
- ◆ Undergraduate Researcher, Schluter Lab, Zoology Department, University of British Columbia (2016-2017)

PUBLICATIONS

- ◆ Roesti, M. **Groh, J.S.**, Jones, F., Peichel, C.L., and Schluter, D. 2026. Reply to MacColl: Repeated evolution from standing genetic variation. *Proceedings of the National Academy of Sciences* **123**: e2605003123.
- ◆ **Groh, J.S.**, Soares dos Santos, M.F., Avila de Dios, E. Ackerman, G.*, Solares, E., Iturrieta, R.A., Focht, E., Seymour, D., Gaut, B.S., Arpaia, M.L., and Coop, G. 2025. Balanced polymorphism in a floral transcription factor underlies an ancient rhythm of daily sex alternation in avocado. *bioRxiv*. Preprint Version 1, 24 December 2025. <https://doi.org/10.64898/2025.12.22.695989>. (In Review).
- ◆ **Groh, J.S.**, 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**:1-18.
- ◆ Roesti, M. **Groh, J.S.**, Jones, F., Peichel, C.L., and Schluter, D. 2025. A species interaction kickstarts ecological speciation in allopatry. *Proceedings of the National Academy of Sciences* **122**:e2506625122.
- ◆ **Groh, J.S.**, Vik, D.C.*, Davis, M., Stevens, K.A., Brown, P.J., Langley, C.H. and Coop, G. 2025. Ancient structural variants control sex-specific flowering time morphs in walnuts and hickories. *Science* **387**: eado5578. [Cover article]
- ◆ Langdon, Q.K. **Groh, J.S.**, Aguilon, S.M. et al. 2024. Swordtail fish hybrids reveal that genome evolution is surprisingly predictable after initial hybridization. *PLoS Biology* **22**:e3002742.
- ◆ **Groh, J.S.** and Coop, G. 2023. The temporal and genomic scale of selection following hybridization. *Proceedings of the National Academy of Sciences* **121**:e2309168121.

- ◆ James, M.E., Allsopp, R.N.*, **Groh, J.S.**, Kaur, A., Wilkinson, M.J. and Ortiz-Barrientos, D. 2023. Uncovering the genetic architecture of parallel evolution. *Molecular Ecology* **32**:5575-5589.
- ◆ Roesti, M., **Groh, J.S.**, Blain, S.A., Huss, M., Rassias, P., Bolnick, D.I., Stuart, Y.E., Peichel, C.L. and Schluter, D. 2022. Species divergence under competition and shared predation. *Ecology Letters* **26**:111-123. **[Cover article]**
- ◆ James, M.E., Arenas-Castro, H., **Groh, J.S.**, Allen, S.L., Engelstädter, J. and Ortiz-Barrientos, D., 2021. Highly replicated evolution of parapatric ecotypes. *Molecular Biology and Evolution* **38**:4805-4821.
- ◆ **Groh, J.S.** and Cronk, Q.C. 2020. Phenotypic evidence for an extensive mosaic hybrid zone between two species of columbine, *Aquilegia flavescens* and *A. formosa*. *Botany* **98**:459–467.
- ◆ **Groh, J.S.**, Percy, D.M., Björk, C.R., and Cronk, Q.C. 2019. On the origin of orphan hybrids between *Aquilegia formosa* and *Aquilegia flavescens*. *AoB Plants* **11**:ply071. **[Editor's Choice]**

*Undergraduate mentee

FELLOWSHIPS AND RESEARCH GRANTS

- ◆ Miller Postdoctoral Research Fellowship, Miller Institute for Basic Research in Science, UC Berkeley (2025-2028)
- ◆ National Science Foundation Graduate Research Fellowship Program (NSF GRFP) (2019-2024)
- ◆ Rausser Research Seed Grant – \$10,000; UC Berkeley (2026)
- ◆ Davis Botanical Society Research Grant – \$2,000 (2024, 2025)
- ◆ 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 – \$1,500 (2024)
- ◆ Dean’s Distinguished Graduate Fellowship, UC Davis (2019)
- ◆ American Australian Association Education Fellowship (2018)
- ◆ Undergraduate Research Grants, UBC:
 - National Science and Engineering Research Council SURE Award (2016)
 - International Undergraduate Summer Research Award, UBC (2017)
 - Botany and Zoology Student Research Award (2017)
 - Walter Lewis Research Award in Plant Biodiversity (2017)

AWARDS & DISTINCTIONS

- ◆ James Crow Early Career Research Award 2026 Finalist; Genetics Society of America
- ◆ Merton Love Award, UC Davis (2025); for “Outstanding Dissertation in Ecology and Evolution”
- ◆ C.K. Choi Award and Westbrook Scholar, UBC (2017); *UBC’s most prestigious designations offered to senior students
- ◆ Mackenzie King Open Scholarship, UBC (2018) – offered, declined due to funding overlap
- ◆ Additional UBC undergraduate awards
 - Outstanding International Student Award (2014)
 - International Major Entrance Scholarship (2014)
 - Chancellor’s Scholar Award (2014)
 - International Community Achievement Award (2015)
 - Faculty of Science International Student Scholarship (2015)
 - Adam F. Szczawinski Prize in Botany (2017)
 - Thomas M.C. Taylor Prize in Botany (2017)
 - School of Music International Student Scholarship (2016)

- Ernest Wesley Cubitt Sharpe Memorial Scholarship (2016)
- ◆ 2x NAIA All-American, Track & Field
 - 1500m (individual) – 2018
 - 4x800m relay – 2015; *UBC school record
- ◆ Eagle Scout, Boy Scouts of America (2012)

PRESENTATIONS

- ◆ Integrative Biology Departmental Seminar, UC Berkeley (2026)
- ◆ Bay Area Population Genetics Conference, Stanford University – poster presentation (2025)
- ◆ Evolution Meeting, Athens, GA – oral presentation (2025)
- ◆ Virtual Evolution Meeting – oral presentation (2025)
- ◆ Bay Area Population Genetics Conference, UC Berkeley – poster presentation (2024); *Best Poster Award
- ◆ Society for Molecular Biology and Evolution Conference, Puerto Vallarta, Mexico – poster presentation (2024)
- ◆ Canadian Society for Ecology and Evolution, Sex Determination Symposium, Vancouver, BC – oral presentation (2024); *selected through competitive application
- ◆ The Allied Genetics Conference, Washington, DC - oral presentation (2024)
- ◆ Evolution Meeting, Albuquerque, NM – oral presentation (2023)
- ◆ Population, Evolutionary and Quantitative Genetics Conference, Asilomar, CA – poster (2022)
- ◆ Bay Area Population Genetics Conference, Stanford University – oral presentation (2022)
- ◆ Center for Population Biology Seminar Series, UCD – post-qualification seminar talk (2021)
- ◆ Evolution Meeting, virtual – oral presentation (2020)
- ◆ Evolution Meeting, Providence RI – poster (2019)

Invited Presentations

- ◆ Evolution of mating systems, University of Lille (remote, 2025)
- ◆ Botany Lunch Seminar Series, UC Berkeley (2025)
- ◆ Center for Theoretical and Evolutionary Genetics Seminar Series, UC Berkeley (2025)
- ◆ Ecology & Evolution Seminar Series, Merton Love Award seminar, UC Davis, (2025)
- ◆ Wright Lab Meeting, University of Toronto – oral presentation (2024)
- ◆ Schumer Lab Meeting, Stanford University – oral presentation (2024)

TEACHING & MENTORSHIP

- ◆ Instructor of Record, EVE 100 Introduction to Evolution, UCD (summer 2023)
- ◆ Yoga Teacher, RYT-200, Green Yogi, Berkeley CA (2026)
- ◆ Teaching Assistant, EVE 102, Population & Quantitative Genetics (Fall 2024)
- ◆ Teaching Assistant, EVE 100 Introduction to Evolution, UCD (spring 2021)
- ◆ Postdoc mentor to three UCB undergraduates (2025-2026)
- ◆ Grad student mentor to four UCD undergraduates (2023-2025)
- ◆ Graduate Student Mentor, Ecology & Evolution Graduate School Preview Program UCD (2020-2024)

SERVICE & LEADERSHIP

- ◆ Co-Organizer of Evolutionary Genomics Reading Group, UC Berkeley (2025)
- ◆ ‘Ask a Geneticist’ outreach presentation at ‘Expect Greater’ UCD fundraising event (2024)
- ◆ UCD College of Biological Sciences Graduate DEIJ Leader Fellow (2023)

- ◆ PBGG Student Diversity Committee chair (2022-2023)
- ◆ PBGG Student Representative Organizer (2022-2023)
- ◆ PBGG Steering Committee student representative (2021-2022)
- ◆ PBGG Graduate Student Conference organizer (2019)
- ◆ Lead organizer of Bay Area Population Genetics Conference (Spring 2023)
- ◆ Scholarship application reviewer, American Australian Association
- ◆ Peer-reviewed manuscripts for *PNAS*, *New Phytologist*, *Molecular Ecology*, *BMC Genomics*, *G3*, *Taxon*, *Ecology & Evolution*

MEDIA COVERAGE

- ◆ “Evolution: Disassortative mating going nuts.” Contreras-Garrido, A., and Castric, V. 2025. *Current Biology* 35: R1061 - R1063. (Dispatch article covering Groh et al. 2025, *Curr. Bio.*)
- ◆ “Walnut Trees’ Flowers Have Been Changing Sex Every Season For 40 Million Years.” *IFL Science* (January 2025) <https://www.iflscience.com/walnut-trees-flowers-have-been-changing-sex-every-season-for-40-million-years-77513>. (Published without consultation from authors) – coverage of Groh et al. 2025, *Science*
- ◆ “Genetics of Alternating Sexes in Walnuts.” <https://www.ucdavis.edu/news/genetics-alternating-sexes-walnuts>. UC Davis News Release (January 2025) – coverage of Groh et al. 2025, *Science*
- ◆ Scholar Spotlight: Jeff Groh, American Australian Association. <https://americanaustralian.org/scholar-spotlight-jeff-groh/>
- ◆ “On the origin of orphan hybrids between *Aquilegia formosa* and *Aquilegia flavescens*.” *Botany One* (February 2019), <https://botany.one/2019/02/on-the-origin-of-orphan-hybrids-between-aquilegia-formosa-and-aquilegia-flavescens/>