Alan O. Bergland

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POSITIONS

Associate Professor — **University of Virginia**
Department of Biology — 2022 - current

Assistant Professor — **University of Virginia**
Department of Biology — 2016 - 2022

Research Associate — **Stanford University**
Petrov Lab, Department of Biology — 2014 - 2015

Post-doctoral Fellow — **Stanford University**
Petrov Lab, Department of Biology — 2010 - 2014

EDUCATION

Ph.D. — **Brown University**
Tatar Lab, Dept. of Ecology and Evolution — 2004 - 2010

B.S. with Honors — **Univ. of Oregon**
Bradshaw-Holzapfel Lab, Dept. of Biology — 2000-2004

B.S. — **Univ. of Oregon**
Dept. of Philosophy — 2000-2004

GRANTS, FELLOWSHIPS & AWARDS

2025-2026: UVA A&S Seed Funding "Unraveling the genetic architecture of an adaptive inversion" $50,000
2024: UVA Data Analytics Center Research Support Grant $10,000 (in-kind)
2024-2025: 4-VA grant "Sex, death, and dormancy in the rock pools of Belle Isle" $36,000
2023 – current: UVA ADVANCE Fellow
2022 – 2027: NSF CAREER "Backyard Evolution across a Seasonal Metapopulation in Drosophila" $757,988 in total direct costs.
2019: Dept. of Biology Teaching Award, University of Virginia
2016 – 2021: NIH R35 "The genetic and physiological architecture of rapid and cyclic adaptation" sole PI. $1,250,000 in total direct costs.
2013: Stanford Center for Computational, Evolutionary and Human Genomics trainee research grant, "Physiological mechanisms underlying rapid adaptive evolution", $15,000
2012: NESCent Catalysis meeting grant, "Tracking the biotic response to global climate change through genomic analysis;" Co-PI along with D. Petrov & P. Schmidt
2011 – 2014: NIH NRSA post-doctoral fellowship, "Genomics of Natural Populations", $165,000

2007 – 2008: Oliver Cromwell Gorton Arnold Biological Fellow, Brown Univ.

PUBLISHED ARTICLES

(† = undergraduate mentee; * = equal contribution; **member of the Bergland lab**)

39. **Murray CS, Karram M, Bass DJ†, Doceti M†, Becker D, Nunez JCB,** Ratan A, **Bergland AO**. (available online 2024). Trans-Specific Polymorphisms Between Cryptic Daphnia Species Affect Fitness and Behavior. Molecular Ecology: 10.1111/mec.17632.
38. **Lenhart BL, Ashan A†**, **McHaty M†**, **Bergland AO**. 2024. Improvement of starvation resistance via periodic fasting is genetically variable in *Drosophila melanogaster*. Physiological Entomology: 10.1111/phen.12443
37. **Nunez JCB, Lenhart BL, Bangerter A, Murray CSM, Yu Y, Nystrom TL, Tern C†, Erickson PA, Bergland AO**. 2024. A cosmopolitan inversion drives seasonal adaptation in overwintering Drosophila. Genetics: 10.1093/genetics/iyad207
36. Rakes LM, **Delamont M**, Cole C, Yates JA, **Blevins LJ†, Hassan FN†, Bergland AO**, Erickson PA. 2023. Spatial and temporal variation in abundance of introduced African fig fly (*Zaprionus indianus*) (Diptera: Drosophilidae) in the eastern United States. Journal of Insect Science: 10.1093/jisesa/iead092
35. **Porter RJ*, Gutierrez G*, Barnard-Kubow KB, Bergland AO**. 2023. Maternal control of spontaneous dormancy termination in *Daphnia pulex.* Hydrobiologia: 10.1007/s10750-023-05361-w
34. **Yu Y & Bergland AO.** 2022. Unique signals of clinal and seasonal allele frequency change at eQTLs in *Drosophila melanogaster*. Evolution: 10.1111/evo.14617
33. **Becker D, Barnard-Kubow K, Porter R, Edwards A**, Beckerman A, **Bergland AO**. 2022. Stabilizing selection shapes variation in phenotypic plasticity. Nature Ecology and Evolution: 10.1038/s41559-022-01837-5
32. **Barnard-Kubow K, Becker D, Murray C, Porter R, Gutierrez G†, Erickson P, Nunez JCB, Voss E**, Suryamohan K, Ratan A Beckerman A, **Bergland AO**. 2022. Polygenic variation in sexual investment across an ephemerality gradient in *Daphnia pulex*. Molecular Biology and Evolution: 39(6):msac12
31. Kapun M*, **Nunez JCB***, Bogaerts-Márquez M*, Murga-Moreno J*, Paris M*, **Outten J**, Coronado-Zamora M, **Tern C†**, (+40 others), & **Bergland AO**. 2021. Drosophila Evolution over Space and Time (DEST) - A New Population Genomics Resource. Molecular Biology and Evolution: 10.1093/molbev/msab259
30. Machado H*, **AO Bergland***, R Taylor, S Tilk, E Behrman, K Dyer, D Fabian, T Flatt, J Gonzalez, T Karasov, O Kozeretska, B Lazzaro, T Merritt, J Pool, K O'Brien, S Rajpurohit, P Roy, S Schaeffer, S Serga, P Schmidt, D Petrov. 2021. Broad geographic sampling reveals predictable and pervasive seasonal adaptation in Drosophila. eLife: 10: e67577 DOI: 10.7554/eLife.67577
29. **Weller C**, Tilk S, Rajpurohit S, **Bergland AO**. 2021. Accurate, ultra-low coverage genome reconstruction and association studies in Hybrid Swarm mapping populations. G3: 10.1093/g3journal/jkab062.
28. Fu Z, Meier AR, Epstein B, **Bergland AO**, Castillo Carrillo CI, Cooper W, Cruzado RK, Horton DR, Jensen AS, Kelley JL, Rashed A, Reitz SR, Rondon S, Thinakaran J, Wenninger EJ, Wohleb CH, Crowder DW, Snyder WE. 2020. Host plants and endosymbionts shape the population genetics of sympatric vectors. Evolutionary Applications: 13(10):2740-2753.
27. **Erickson PA, Weller CA, Song DY†, Bangerter-Black A**, Schmidt PS, **Bergland AO**.

2020. Unique genetic signatures of local adaptation over space and time for diapause, an ecologically relevant complex trait, in *Drosophila melanogaster*. PLoS Genetics: 16(11):e1009110

26. Kapun M, MG Barrón, F Staubach, DJ Obbard, RAW Wiberg, J Vieira, C Goubert, O Rota-Stabelli, M Kankare, M Bogaerts-Márquez, A Haudry, L Waidele, I Kozeretska, E G Pasyukova, V Loeschcke, M Pascual, C P Vieira, S Serga, C Montchamp-Moreau, J Abbott, P Gibert, D Porcelli, N Posnien, A Sánchez-Gracia, S Grath, E Sucena, **AO Bergland**, M Pilar Garcia Guerreiro, B Sebnem Onder, E Argyridou, L Guio, M Fristrup Schou, B Deplancke, C Vieira, M G Ritchie, B J Zwaan, E Tauber, D J Orengo, E Puerma, M Aguadé, P Schmidt, J Parsch, A J Betancourt, T Flatt, J González 2020. Genomic analysis of European Drosophila populations reveals longitudinal structure and continent-wide selection. 2020. Molecular Biology and Evolution 37(9):2661-2678
25. Waldvogel AM, Feldmeyer B, Rolshausen G, Exposito-Alonso M, Rellstab C, Kofler R, Mock T, Schmid K, Schmitt I, Bataillon T, Savolainen O, **Bergland AO**, Flatt T, Guillaume F, Pfenninger M. 2020. Evolutionary genomics can improve prediction of species' responses to climate change. Evolution Letters: 10.1002/evl3.154
24. **Stone† HM, Erickson PA*, Bergland AO***. 2020. Phenotypic plasticity, but not adaptive tracking, underlies seasonal variation in post-cold hardening freeze tolerance of *Drosophila melanogaster*. Ecology and Evolution: 10.1002/ece3.5887
23. Wang Y, Kapun M, Waidele L, Kuenzel S, **Bergland AO**, Staubach F. 2020. Common structuring principles of the *Drosophila melanogaster* microbiome on a continental scale and between host and substrate. Environmental Microbiology Reports: doi:10.1111/1758-2229.12826
22. Tilk S, **Bergland AO**, Goodman A, Schmidt P, Petrov D, Greeblum S. 2019. Accurate allele frequencies from ultra-low coverage pool-seq samples in evolve-and-resequence experiments. G3: 10.1534/g3.119.400755
21. Rajpurohit S, Gefen E, **Bergland AO**, Petrov DA, Gibbs AG, Schmidt PS. 2018. Spatiotemporal dynamics and genome-wide association analysis of desiccation tolerance in *Drosophila melanogaster.* Molecular Ecology: 27 (17), 3525-3540
20. Behrman EL, Howick VM, Kapun M, Staubach F, **Bergland AO**, Petrov DA, Lazzaro BP, Schmidt PS. 2018. Rapid seasonal evolution in innate immunity of wild Drosophila melanogaster. Proc. R. Soc. B 285: 20172599.
19. Anderson C, Reiss I, Zhou C, Cho A, Siddiqi H, Mormann B, Avelis C, Deford P, **Bergland AO**, Roberts E, Taylor J, Vasiliauskas D, Johnston R. 2017. Natural variation in stochastic photoreceptor specification and color preference in *Drosophila.* eLife. doi:10.7554/eLife.29593
18. Wittmann MJ, **Bergland AO**, MW Feldman, PS Schmidt, DA Petrov. 2017. Segregation lift: A general mechanism for the maintenance of polygenic variation under seasonally fluctuating selection. PNAS. doi: 10.1073/pnas.1702994114
17. Fu Z, Epstein B, Kelley JL, Zheng Q, **Bergland AO**, et al. 2017. Using NextRAD sequencing to infer movement of herbivores among host plants. PLOS ONE 12(5): e0177742.
16. Akhund-Zade J†, **Bergland AO**, Crowe SO, Unckless R. 2017. The Genetic Basis of Natural Variation in Drosophila (Diptera: Drosophilidae) Virgin Egg Retention. Journal of Insect Science: doi: 10.1093/jisesa/iew094
15. Rajpurohit S, Hanus R, Vrkoslav V, Behrman EL, **Bergland AO**, Petrov D, Cvacka J, Schmidt PS. 2016. Adaptive dynamics of cuticular hydrocarbons in Drosophila. Journal

of Evolutionary Biology: doi: 10.1111/jeb.12988.
14. Beckerman AP, Childs DZ, **Bergland AO**. 2016. Eco-evolutionary Biology: Feeding and Feedback Loops. Current Biology, doi: 10.1016/j.cub.2016.01.013.
13. Tuttle EA*, **Bergland AO*,** Gonser R, Karody M, Lear T, Houck M, Ryder O, Romanov M, Warren WC, Balakrishnan CN. 2016. Divergence and functional degradation of a sex-chromosome like super-gene. Current Biology, doi:10.1016/j.cub.2015.11.069.
12. Machado HE, **Bergland AO**, O'Brien K, Behrman EL, Schmidt PS, Petrov DA. 2016. Comparative population genomic analysis of latitudinal variation in *D. simulans* and *D. melanogaster*. Molecular Ecology, doi: 10.1111/mec.13446.
11. **Bergland AO**, Tobler R, González J, Schmidt P & Petrov D. 2016. Secondary contact and local adaptation contribute to genome-wide patterns of clinal variation in *Drosophila melanogaster*. Molecular Ecology, doi: 10.1111/mec.13455
10. Zhao X, Behrman EL, **Bergland AO**, Gregory BD, Petrov DA, Schmidt PS. 2015. Global transcriptional profiles of diapause in *Drosophila melanogaster* reveal evidence of seasonal adaptation. Molecular Biology and Evolution, doi: 10.1093/molbev/msv263
9. **Bergland AO**, E Behrman, K O'Brien, P Schmidt & D Petrov. 2014. Genomic evidence of rapid and stable adaptive oscillations over seasonal time scales in Drosophila. PLoS Genetics 10(11): e1004775. doi:10.1371/journal.pgen.1004775
8. Paaby AB, **Bergland AO**, Behrman EL, Schmidt PS. 2014. An amino acid polymorphism in the *Drosophila* Insulin Receptor demonstrates pleiotropic and adaptive function in life-history traits. Evolution (68): 3395-3409
7. Adrion J, Pascual M, Burrack H, Haddad N, **Bergland AO**, Machado H, Sackton T, Schlenke T, Watada M & Singh N. 2014. Reconstructing the invasion history of *Drosophila suzukii* using multilocus sequence data. Molecular Biology Evolution: doi:10.1093/molbev/msu246
6. Feder A†, Petrov D & **Bergland AO**. 2012. LDx: Estimation of linkage disequilibrium from high-throughput pooled resequencing data. PLoS ONE 7(11): e48588
5. Zhu Y, **Bergland AO**, Gonzalez-Perez J & Petrov D. 2012. Empirical validation of pooled whole genome population re-sequencing in *Drosophila melanogaster*. PLoS ONE 7(7): e41901
4. **Bergland AO,** Chae HS, Kim YJ & Tatar M. 2012. Fine scale mapping of natural variation in fly fecundity identifies neuronal domain of expression and function of an aquaporin. PLoS Genetics 8(4): e1002631
3. **Bergland AO.** Mechanisms and ecological genetics of reproduction in Dipteran insects, 2011. In *Molecular mechanisms of life history evolution*, eds. Flatt, T. & A. Heyland. Oxford University Press, Oxford, UK
2. **Bergland AO**, Genissel A, Nuzhdin SV & Tatar M. 2008. Quantitative trait loci affecting phenotypic plasticity and the allometric relationship of ovariole number and thorax length in *Drosophila melanogaster*. Genetics 180: 576-582
1. **Bergland AO**, Agotsch M, Mathias D, Bradshaw WE & Holzapfel CM. 2005. Factors influencing the seasonal life history of the pitcher plant mosquito, *Wyeomyia smithii*. Ecological Entomology 30:129-137

SEMINARS & PRESENTATIONS

(* = departmental seminar; † = conference)

2025: Museum of Vertebrate Zoology, UC Berkeley, Berkeley, CA*

Ukrainian School in Evolutionary Biology, Uzhgorod, Ukraine / virtual†
15th DrosEU Meeting – Lisbon, Barcelona†

2024: Dept of Biological Sciences, University of South Carolina, Columbia, SC*
School of Biological Sciences, University of Nebraska, Lincoln, NE*
Dept. of Entomology, University of Maryland, College Park, MD*
SSE/ESEB Joint Congress – Montreal, Canada†
14th DrosEU Meeting – Barcelona, Spain†

2023: 13th DrosEU Meeting – Netherlands†
Society for the Study of Evolution Meeting, Albuquerque, NM†

2022: European Society for Evolutionary Biology, Prague, Czech Republic†
Society for the Study of Evolution Meeting, Cleveland, Ohio†
12th DrosEU Meeting – Belgrade / Virtual†
Center for Public Health Genomics, UVA*
Center for Functional Ecology and Evolution, University of Montpellier*

2021: Dept. of Biology, University of Virginia (Promotion/Tenure seminar)*
11th DrosEU Meeting – Virtual†

2020: Penn State University, State College, PA*
Department of Evolutionary Biology, University of Zurich, Zurich, Switzerland*
EAWAG Kastanienbaum, Luzern, Switzerland*
10th DrosEU Meeting, Instituto Gulbenkian, Lisbon, Portugal†

2019: 9th DrosEU Meeting, ESEB STN, Turku, Finland†
European Society for Evolutionary Biology, Turku, Finland†
8th. DrosEU Meeting, Universitat Pompeu Fabra, Barcelona, Spain†
Society for the Study of Evolution Meeting, Providence, RI†
Dept. of Biology, James Madison University*
Dept. of Biology, Washington State University*

2018: Museum of Comparative Zoology, Harvard University*
Dept. of Ecology and Evolution, Brown University*
Dept. of Biology, College of William and Mary*
7th DrosEU Meeting, Institute in San Michele all' Adige (Keynote address)†
Dept. of Biology, Johns Hopkins University*
Center for Public Health Genomics, UVA*
Senckenberg Nat. History Museum, Genomics of Climate Change (Keynote address)†

2017: Entomological Society Meeting, Pacific Branch (Invited) †
Dept. of Biology, East Carolina University*
Drosophila Research Conference, San Diego (Submitted)†

2016: Mind the Gap Conference, Vienna, Austria†
Neuroscience Graduate Program, University of Virginia*

2015: Institut Jacques Monod, Université Paris Diderot, Paris, France*
Dept. of Biology, Indiana State University (Double Helix Speaker)*
University of Sheffield, Sheffield, United Kingdom*

3rd DrosEU meeting, Barcelona, Spain
Universitat Pompeu Fabra, Barcelona, Spain*
Dept. of Molecular Biosciences, University of Kansas*
Dept. of Biology, University of Virginia*

2014: Entomological Society of America, Portland, OR†
2012: Bay Area Population Genetics VI, Univ. of California, Davis†
rEvolution, Stanford University†
2011: University of Pennsylvania*
2008: Uppsala University, Uppsala, Sweden*
Interdisciplinary Graduate Student Seminar Series, Brown University†

SYMPOSIA/WORKSHOPS ORGANIZED

2024: Ecological Genetics & Genomics Session Chair – DRC/TAGC 2024. Co-organized with Luisa Pallares (Max Plank Institute for Evolutionary Biology)
2021-2023: UVA HR Leadership Essentials workshop on Genetics and Race for adult learners. Co-organized with Joaquin Nunez (UVA) and Lisa Harris (UVA).
2022: UVA Biology workshop. "Toward a more humane genetics education: How to teach about genetics to reduce racism" Co-organized with Brian Donovan (BSCS Science Learning)
2022: European Society for Evolutionary Biology conference symposium. "Progress and prospects in adaptation genomics." Co-organized with Josefa Gonzalez (Universitat Pompeu Fabra, Spain) and Thomas Flatt (University of Fribourg, Switzerland)
2021: Drosophila Research Conference workshop. "A community-based approach to understanding Drosophila Evolution through Space and Time." Co-organized with Josefa Gonzalez (Universitat Pompeu Fabra, Spain) and Martin Kapun (University of Zurich, Switzerland)
2019: American Society of Naturalists Special Symposium at the joint ASN/SSE/SSB meeting. "Causes and consequences of temporally fluctuating selection in the wild." Co-organized with Zach Gompert (Utah State University)
2012: Tracking the biotic response to global climate change through genomic analysis, NESCent, Durham, NC (co-organized with Dmitri Petrov & Paul Schmidt)

PUBLIC OUTREACH

2020-2024: Teamed up with faculty at Piedmont Virginia Community College to develop capstone project collecting flies at local orchard (2-3 students/year).
2020-current: Citizen Science recruiting at Master Gardeners Associations around Virginia
2017, 2018, 2019: Presentation to 5th grade class about pollinators at McSwain Elementary, Staunton, VA
2018: Interviewed by Staunton News Leader for story about insect diversity

COURSES TAUGHT

F23, F24: *Computational Evolutionary Biology Lab* (BIOL4020)
S23, S24, S25: *Genetics and Molecular Biology* (BIOL3010, co-taught with Sarah Siegrist)

S17, S18, S19, S21, S22: *Molecular Evolution – Diversity, Mutants, and the Biological Myth of Race (*BIOL4610)
F21, S22: *Professional Skills in the Life Sciences* (BIOL8240/BIOL8250)
F18, F20, F22, F24: *Colloquium in Population Biology* (BIOL8070)
S17: *Communicating in Science* (BIOL8020)
F17, F19, F22, F24: *Advanced Ecology and Evolution* (BIOL8083)

PROFESSIONAL DEVELOPMENT ACTIVITIES

Summer 2019: Return Panelist at Teaching Race at UVA workshop, University of Virginia
May 2019: Faculty Seminar on the Teaching of Writing, University of Virginia
Summer 2018: Teaching Race at UVA workshop, University of Virginia
January 2017: Course Development Institute, University of Virginia

MENTORSHIP AND TRAINING

Post-docs (4 former, 1 current):
- Karen Barnard-Kubow (2016-2020) Assistant Professor (research) and Director of the Genomics Core, James Madison University
- Priscilla Erickson (2016-2021) Assistant Professor, Univerissty of Richmond
- Dörthe Becker (2016-2020) Visiting Assistant Professor, University of Marbug, Germany starting Fall 2021
- Joaquin Nunez (2020-2023) Assistant Professor, University of Vermont
- Abigail Hayes (2023 – current)

PhD Students (4 former, 3 current):
- Cory Weller (2016-2019) Thesis: The Evolutionary Implications of Adaptations to Stressful Environments on Time Scales Spanning Days to Millennia (now staff scientist at NIH)
- Alyssa Bangerter (2016-2021) Thesis: Temporally Varying Selection and the Maintenance of Genetic Variation
- Yang Yu (2017-2022) Thesis: Adaptive dynamics of seasonal and spatial gene expression plasticity in Drosophila (now a post-doc at Mass Children's Hospital)
- Connor Murray (2019-2024), Thesis: The evolutionary history and ecological genetics of *Daphnia pulex*
- Adam Lenhart (2019-current) Thesis: Natural variation and nutritional specificity in fasting-induced starvation resistance among *Drosophila* populations
- Taylor Nystrom (2019-current) Co-advised with Sarah Siegrist, Thesis: Elucidating how nutrition and underlying genetic variation interact to influence brain development and function
- Robert Porter (2020-current) Thesis: Evolution and genetics of diapause termination in Daphnia

Graduate Rotation Students (7 former): Pramod Kahdka (2017), Yang Yu (2017), Hannah Makowski (2018), Connor Murray (2019), Sarah McPeek (2019), Adam (Benedict) Lenhart (2020), Taylor Nystrom (2020), Robert Porter (2020), Madison Karram (2023), Andrew Croitoru (2024), Jingqi Liu (2025), Dylan Highland (2025), Andrew Grieve (2025)

Thesis committee membership: Aaron Reedy (2016-2018), Ajay Chatrath (2019-2020; Med School), Anna Way (2017-2021; First Reader), Audrey Brown (2018-2022; First Reader), Caroline Bush (2020-2023), Catherine Debban (2016-2019), Catherine Vincent (2017-2020; EnviSci), Christopher Robinson (2020-2024), Daniel Nondorf (2020-current; First Reader), Erin Fegley (2018-2019), Hanna Makowski (2020-2024), Israel Angosor (2018-2021), Keric Lamb (2020-2024), Phoebe Cook (2019-2022), Rachana Bhave (2018-2024), Ryan Sangson (2017-2023; First Reader), Yingnan Gao (2017-2023), Yuanming Liu (2021-current), Louis Bubrig (2022 – current; First Reader), Noah Brown (2023-current; First Reader), Myles Davol (2023-current), Erin Scott (2024 – current; First Reader), Madison Karram (2024 – current; First Reader), Cameron Cotton (2024, Physics)

Distinguished Major Students (3 former, 1 current): Cynthia Ong (2016-2018)**,** Helen Stone (2017-2019), William (Liam) Miller (2021-2022), Daria Gunderman (2022-2023), Madi Doceti (2023-2024)

Independent Undergraduate Researchers (~36 former, 5 *current*, Harrison Award Winners*, College Council Award Winner°, Double-Hoos†): Cynthia Ong* (2016-2018), Daniel Song (2016-2019), Warren Wheaton (2016-2018), Anne Saunders (2017-2019), Helen Stone* (2017-2019), Matt Cambell (2017-2019), Dakota Delong-Maxey* (2017-2020), Grace Gutierrez (2018-2020), Hanzhang Li (2018-2020), Robert Porter (2017-2020), Sasha Bilal* (2018-2020), Sharon Hueston (2018-2020), Skylar Lee (2018-2020), Teja Muagala (2019-2020), Yasmin Khodaei (2019-2020), Zach Williams (2019-2020), Kisal Batuwangala (2018-2021), William (Liam) Miller* (2018-2022), Courtney Tern (2018-2022), Daria Gundermann (2021-2023), *Ayesha Ahsan (F2022-current)*,* David Bass* (Sp22-Sp23), Brad Davis (Su22-F22), Madi Doceti°† (Sp21-Sp24), Kariman Eitta (F22-Sp23), Margaret McHaty (F22-Sp24), Caroline Roda (F22-Sp23), *Celina Vasquez (F22-F24), Gio Mazzeo (Sp23-current)*, Lynsey Blevins (Sp23-Sp24), Owen Shaffer (F23-S24), *Caroline Smith (F24-current), Grace Miller (F24-current), Lauren Bradshaw° (F22-current), Angie Smith (Sp25-current)*

VA-NC Alliance for Minority Participation Summer Students: Yasmin John (2017), Kojo Agyeman-Prempeh (2018), Celina Vazquez (2022), Feby Abraham (2022), Maya Harris (2024)

Lab technicians: Erin Voss (2016-2018, now PhD student at UC Berkeley), Austin Edwards (2016-2018, now technician at UCSF), Robert Porter (2018-20219, now PhD student at UVA), Grace Gutierrez (2020-2021, now MS student at Penn. State Univ.), Megan Delamont (2022-2023), Megan Stephenson (2023-current)

Community College Visiting Faculty Collaborators: Prof. Joanna Vondrasek (2023; PVCC); Prof. Anne Alison (2024; PVCC)

DEPARTMENTAL SERVICE

2024-2027: Director of Graduate Studies, Biology Dept., UVA
2023-2024: TT Microbiology/Immunology Search, UVA
2022-2023: TT Evolutionary Biology Search (Chair), UVA
2020-2022: Steering Committee
2019-2022: *Ad hoc* Community Committee
2018, 2019: Faculty organizer of the Departmental Retreat, UVA

2018/2019: Undergraduate Committee, UVA
2016/2017, 2017/2018, 2021/2022, 2023/2024: Graduate Committee, UVA

UNIVERSITY SERVICE

2024-current: Research Computing Advisory Committee
2024-current: NSF S-STEM PACE Advisory Committee

PROFESSIONAL SERVICE

2023 – current: Associate Editor *Evolution*
2022: NSF IOS Panel (full)
2014, 2015, 2016: NSF DEB Evolutionary Processes Panel (pre- & full-)
2017: GRFP proposal panel
2015: Genetics Society of America 100 Year Anniversary committee
2013 – 2014: Post-doc representative, Genetics Society of America Awards committee

Guest Editor:
PLoS Genetics (2021, 2024)

Ad-hoc Reviewer:
• **Scientific journals:** *Aging Cell, The American Naturalist, BMC Biology, Developmental Biology, eLife, Ecological Entomology*, *Ecology and Evolution, Ecosphere, Environmental Entomology, Evolution*, *Evolution Letters, Evolution & Development, Evolution Letters, Functional Ecology, Genetics, Genome Biology and Evolution, G3, Heredity, Journal of Evolutionary Biology, Journal of Heredity, Molecular Ecology, Molecular Biology and Evolution, Nature Ecology and Evolution, PeerJ, Physiological Entomology, PLoS Genetics, PLoS One, PNAS, Proc. Royal Soc. B., Trends in Genetics, and more!*

• **Funding agencies:** *Austria (ASF), France (INR), United Kingdom (BBSRC), United States (NSF DEB), Netherlands (NWO), Graduate Women in Science, UVA DoubleHoos/Harrison*