

ABBREVIATED CURRICULUM VITAE 2022
Amanda Kyle Gibson, Ph.D.

EDUCATION AND EMPLOYMENT

University of Virginia, Charlottesville, VA

Assistant Professor of Biology, January 2019 – present

Institute for Advanced Study, Berlin, Germany

Fellow of the College for Life Sciences, September – December 2018

Emory University, Atlanta, GA

National Institutes of Health (NIH) Postdoctoral Fellow in Research and Science Teaching, September 2016 – August 2018

Indiana University, Bloomington, IN

Ph.D. in Ecology, Evolution and Behavior, September 2010 - August 2016

National Science Foundation (NSF) Graduate Research Fellow, 2010-2015

NIH Common Themes in Reproductive Diversity Trainee, 2012-2013, 2015-2016

National Institutes of Health, Bethesda, MD

National Institute of Allergy and Infectious Disease Trainee, July 2009-August 2010

Université de Paris-Sud XI, Orsay, France

Fulbright Scholar, September 2008 – June 2009

Amherst College, Amherst, MA

B.A. in Biology, *summa cum laude*, September 2004-May 2008

RECENT HONORS, AWARDS & FELLOWSHIPS

- 2022 University of Virginia Alumni Board of Trustees Teaching Award
2021 Invited speaker, International Symposium celebrating the 75th anniversary of the Society for the Study of Evolution (one of six speakers)
2020 Invited “rising star” speaker, International conference on Evol. Biology of *Caenorhabditis*
2018 Fellow, Berlin Institute for Advanced Study (*Wissenschaftskolleg zu Berlin*)
2018 Dobzhansky Prize, Society for the Study of Evolution
2017 Maynard Smith Prize, European Society for Evolutionary Biology
2016 Huxley Award for Education, Society for the Study of Evolution

RECENT PUBLICATIONS (OUT OF 34; *undergraduate authors underlined*)

1. **AK Gibson** and CR Amoroso. 2022. Ecology and evolution of parasite avoidance. Invited, in press at *Annual Review of Ecology, Evolution and Systematics*
2. LT Bubrig, AN Janisch, EM Tillet, and **AK Gibson**. 2022. Contrasting parasite-mediated reductions in fitness within vs. between patches of a nematode host. *Evolution*. 76(7): 1556-1564.
3. **AK Gibson**. 2021. Genetic diversity and disease: the past, present and future of an old idea. *Evolution* 76(S1): 20-36.
4. **AK Gibson** and AE Nguyen. 2021. Does genetic diversity protect host populations from parasites? A meta-analysis across natural and agricultural systems. *Evolution Letters* 5(1): 16-32.
5. DM Hawley, **AK Gibson**, AK Townsend, ME Craft, and JF Stephenson. 2021. Bidirectional interactions between host social behaviour and parasites arise through ecological and evolutionary processes. *Parasitology* 148(3): 274-288.
6. **AK Gibson**. 2019. Asexual parasites and their extraordinary host ranges. *Integrative and Comparative Biology* 59(6): 1463-1484.
7. C Liu*, **AK Gibson***, P Timper, LT Morran, and RS Tubbs. 2019. Rapid change in host specificity in a field population of the biological control organism *Pasteuria penetrans*.

Evolutionary Applications 12(4): 744-756. *authors contributed equally

FUNDING (\$2,198,054 TOTAL)

1. UVA GIDI-UP Award Gibson (PI); 05/09/2022-05/08/2023
Testing pathogen diversification as a tool to promote sustainable pest management
Award amount: \$10,000
2. Society for the Study of Evolution Workshop Grant Gibson (PI); 2019, 2020, 2022
Graduate Student Workshop in Evolutionary Biology
Award amount: \$3,000 each (awarded three times, forfeited in 2020 due to COVID-19)
3. Morven Sustainability Teaching and Research Grant Gibson (PI); 11/15/2021-11/14/2022
Testing genetic diversification as a tool to promote sustainable pest management
Award amount: \$3,510
4. NIH/NIGMS R35 MIRA Gibson (PI); 8/1/2020-7/31/2025
A general test of the genetic basis of parasite resistance across genetic and environmental contexts
Award amount: \$1,981,298, plus \$92,746 equipment supplement
5. Jeffress Memorial Trust Award Gibson (PI); 9/30/2020-6/30/2022
Modeling the evolution of disease resistance in a variable world
Award amount: \$104,500

TEACHING ACTIVITIES (150 STUDENTS TOTAL)

Undergraduate courses: BIOL 150 Disease Spillover (Summer 2020); BIOL 4012 Evolution and Ecology of Infectious Diseases (Fall 2020, Fall 2021); Graduate courses: BIOL 8084 Advanced Ecology and Evolution (Spring 2020, 2022, 2023); BIOL 8070 Colloquium in Population Biology (Spring 2021); Multiple ranks: Graduate Workshop in Evolutionary Biology (Summer 2019, 2022, head instructor)

SUPERVISED RESEARCH (22 STUDENTS TOTAL)

Undergraduates: S. Budhwar (2019-2020); V. Feist (2021-present); A. Kamali (2022- present); E. Kirschke (2019-2021); A. Lockwood-Shabbat (2022-present); D. McNeill (2019); A. Motter (2020-2022); A. Nguyen (2019-2021); A. Odei (2020-2021); L. Shepard (2021-present); J. Singh (2021-present); T. Sol (2022-present); S. Talley (2022-present); E. Tillet (2019-2021); S. Wong (2019-2022). Ph.D. students: I. Amundson (2021-present); L. Bubrig (2020-present); J. Jiranek (2022-present); A. Ramirez (2021-present). Postdoctoral fellows: C. Amoroso (2021-present); F. Mundim (2019-2022, Assistant Professor, Utah State University); L. Peng (2022-present)

SELECTED INVITED SEMINARS (OUT OF 29)

2022: Dept. Seminars at *New York University, Virginia Tech.* 2021: Dept. Seminar at *Oklahoma University*; Seminar Series in Ecology Evolution and the Environment, *Trinity College Dublin*; Laboratory of Parasitic Diseases Seminar Series, *NIH.* 2020: Ecology and Evolution of Infectious Disease Series, *University of California, Berkeley*; 2019: Dept Seminars at *James Madison University, University of Pittsburgh, University of Connecticut, Tulane University*

RECENT SERVICE

Department Committees: Graduate Admissions (2019-2022); Community and Seminar (2019-present); Social media manager (2020-present); NSF EXPAND Curriculum (2021); Departmental Retreat (Chair, 2021); *ad hoc* Space (2021); Ph.D. Committees (8 total). **International:** Evolutionary Biology of *Caenorhabditis* Conference (2024 organizer); NSF Panel reviewer; *ad hoc* reviewer for Swiss National Science Foundation, Society for the Study of Evolution, NSF, UK National Environment Research Council; Peer reviewer for 17 journals