

ADAM ZVANUT HASIK

CURRICULUM VITAE

Department of Biology
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RESEARCH INTERESTS

Evolutionary Ecology, Disease Ecology, Food-Webs, Host-Parasite Interactions, Community Ecology, Biogeography, Microevolution, Macroevolution, Host-Parasite Coevolution, Immunology, Long-term Studies.

POSTDOCTORAL WORK

Postdoctoral Research Associate, Department of Biology, Universität Konstanz, Konstanz, Germany. June 2026 – Present. Advisor: Dr. Xiang-Yi Li Richter.

Postdoctoral Research Associate, Institute of Evolutionary Biology, University of Edinburgh, Edinburgh, Scotland. July 2023 – May 2026. Advisor: Dr. Josephine M. Pemberton FRS.

Zuckerman Postdoctoral Scholar, Mitrani Department of Desert Ecology, Ben-Gurion University of the Negev, Midreshet Ben-Gurion, Israel. October 2021 – July 2023. Advisor: Dr. Hadas Hawlena.

EDUCATION

Ph.D. in Biology, July 2021, University of Arkansas, Fayetteville, AR, USA. Advisor: Dr. Adam M. Siepielski.

M.Sc. in Ecology, August 2016, Universität Bremen, Bremen, Germany. Advisor: Dr. Erik I. Svensson.

B.S. in Biological Sciences, May 2013, University of Missouri, Columbia, MO, USA.

PROFESSIONAL HISTORY

Teaching Assistant, Department of Biology, University of Arkansas, 2016-2018, 2019-2021.

Research Assistant, Department of Biology, University of Arkansas, 2018-2019.

Field Technician, Department of Biology, Evolutionary Ecology Unit, Lund University, 2015. Long term study of damselfly population morph frequencies.

Field Technician, Department of Biology, University of Missouri, 2012-2013. Reproduction dynamics of multiple frog species in Missouri.

PUBLICATIONS

1. Gómez-Llano, M.; **Hasik, A.Z.**; Joshi, S.; Powell, D.; Ping, T.; Tye, S.; Siepielski, A.M. 2026. Evidence consistent with local adaptation to predation shaping stabilizing effects underlying local coexistence. *Ecosphere*.

2. **Hasik, A.Z.**; Blondeau, M.; Harvey, J.; de Bellis, T.; Pedersen, E.; Córdoba-Aguilar, A.; Marshall, K.; Ferguson, L.; Lessard, J-P. 2026. The macroecology of immunity: predominant influence of climate on invertebrate immune response. *Ecography*.
3. **Hasik, A.Z.**; Hewett, A.M.; Maris, K.; Morris, S.; Morris, A.; Albery, G.F.; Pemberton, J.M. 2025. Parasite-mediated inbreeding depression: evidence from a wild population of red deer. *Heredity*, 134: 637-644
4. **Hasik, A.Z.**; Butt, S.; Maris, K.; Morris, S.; Morris, A.; Turner, R.; Pemberton, J.M.; Albery, G.F. 2025. Population density drives increased parasitism via greater exposure and reduced resource availability in wild hosts. *Parasitology*, 152: 724-734
5. **Hasik, A.Z.**; Ilvonen, J.; Gobbin, T.; Suhonen, J.; Beaulieu, J.; Poulin, R.; Siepielski, A.M. 2025. Parasitism as a driver of host diversification. *Nature Reviews Biodiversity*, 1-10
6. Rodríguez-Pastor, R.; Knossow, N.; Shahar, N.; **Hasik, A. Z.**; Deatherage, D.E.; Gutiérrez, R.; Harrus, S.; Zaman, L.; Lenski, R.E.; Barrick, J.E.; Hawlena, H. 2024. Parasite contingency loci and the evolution of host specificity: *Bartonella krasnovii* adaptation to a rodent host is dominated by mutations in simple-sequence repeats in an adhesin gene. *PLoS Pathogens*, 20: e1012591.
7. **Hasik, A.Z.**; Bried, J.; Bolnick, D.I.; Siepielski, A.M. 2024. Is the local environment more important than within-host interactions in determining coinfection? *Journal of Animal Ecology*, 93: 1541-1555.
8. Albery, G.F.; **Hasik, A.Z.**; Morris, S.; Morris, A.; Kenyon, F.; McBean, D.; Pemberton, J.M.; Nussey, D.H.; Firth, J.A. 2024. Age-related changes in parasite infection occur independently of behavioural ageing in a wild ungulate. *Philosophical Transactions of the Royal Society B*, 379: 20230508.
9. Rodríguez-Pastor*, R.; **Hasik, A.Z.***; Knossow, N.; Shahar, N.; Bar-Shira, E.; Gutiérrez, R.; Zaman, L.; Harrus, S.; Lenski, R.E.; Barrick, J.E.; Hawlena, H. 2023. *Bartonella* infections are prevalent in rodents despite efficient immune responses. *Parasites & Vectors*, 16:315 ***Co-first author**
10. **Hasik, A.Z.**; King, K.C.; Hawlena, H. 2023. Interspecific host competition and parasite virulence evolution. *Biology Letters*, 19: 20220553.
11. **Hasik, A.Z.**; de Angeli Dutra, D.; Doherty, J.F.; Duffy, M.; Poulin, R.; Siepielski, A.M. 2023. Resetting our expectations for parasites and their effects on species interactions: a meta-analysis. *Ecology Letters*, 26:184-199.
12. **Hasik, A. Z.**, Ilvonen, J. I., Siepielski, A. M., and Murray, R.L. 2023. Odonata Immunity, Pathogens, and Parasites. In *Dragonflies and Damselflies: Model Organisms for Ecological and Evolutionary Research*, 2nd edition. Ed. Aguilar, A., Bried, J. Beatty, C., and C. Suarez-Tovar. Oxford Press, London, UK.
13. Siepielski, A. M., Gomez-Llano, M., and **Hasik, A. Z.** 2023. Evolutionary Community Ecology of Odonates. In *Dragonflies and Damselflies: Model Organisms for Ecological and Evolutionary Research*, 2nd edition. Ed. Aguilar, A., Bried, J. Beatty, C., and C. Suarez-Tovar. Oxford Press, London, UK
14. **Hasik, A.Z.**; Tye, S.P.; Ping, T.; Siepielski, A.M. 2023. A common measure of prey immune function is not constrained by the cascading effects of predators. *Evolutionary Ecology*.
15. **Hasik, A.Z.**; Siepielski, A.M. 2022. Parasitism shapes selection by drastically reducing host fitness and increasing host fitness variation. *Biology Letters*, 18: 20220323.
16. **Hasik, A.Z.**; Siepielski, A.M. 2022. A role for the local environment in driving species-specific parasitism in a multi-host parasite system. *Freshwater Biology*, 67: 1571-1583.
17. Siepielski, A.M., **Hasik, A.Z.**, Ping, Taylor, Serrano, Mabel, Strayhorn, Koby, Tye, Simon P. 2020. Predators weaken prey intraspecific competition through phenotypic selection. *Ecology Letters*, 23: 951-961
18. Ousterhout, B., Graham, S., **Hasik, A. Z.**, Serrano, M., and Siepielski, A.M. 2018. Past selection impacts the strength of an aquatic trophic cascade. *Functional Ecology*, 32:1554–1562
19. Siepielski, A.M., **Hasik, A. Z.**, Ousterhout, B. 2018. An ecological and evolutionary perspective on coexistence under global change. *Current Opinion in Insect Science*, 29:71-77

MANUSCRIPTS SUBMITTED/IN REVISION

20. **Hasik, A.Z.**; Butt, S.; Maris, K.; Morris, S.; Morris, A.; Sweeny, A.R.; Pemberton, J.M.; Albery, G.F. Fitness costs of parasitism depend on fine-scale density and resource availability in a wild ungulate. In revision at *Functional Ecology*. **Preprint available on BioRxiv.**
21. **Hasik, A.Z.**; Cerbin, S.; Wolinska, J. Warmer world gets sicker – meta-analysis reveals strong increase in parasitism at elevated temperatures across diverse host-parasite systems. In review at *Proceedings of the Royal Society B*. **Preprint available on BioRxiv.**
22. **Hasik, A.Z.**; Robinson, T.; Guinness, F.E.; Morris, S.; Morris, A.; Clutton-Brock, T.; Pemberton, J.M. Patterns of association between mothers and offspring and their outcomes in a polygynous ungulate. In revision at *Behavioral Ecology*. **Preprint available on BioRxiv.**

23. Jiao, J.; **Hasik, A.Z.**; Siepielski, A.M.; Ferguson, J.M. Detecting nonlinear parasite interactions: an integrated approach in a damselfly coinfection system. In revision at *The Journal of Animal Ecology*.

AWARDS RECEIVED

Early Career Researcher Award at *Parasitology* (2026) - £500
Jacob Blaustein Center for Scientific Cooperation Travel Grant (2022) - \$500
The Central Fund for Advanced Study (2022) - \$1,000
Mortimer B. Zuckerman STEM Leadership Program Postdoctoral Fellowship (2021) - \$104,000
Professor Delbert Swartz Endowed Graduate Fellowship (2019) - \$1,300
University of Arkansas Graduate Student Travel Grant (2019) - \$1,000
University of Arkansas Graduate Student Travel Grant (2018) - \$1,000

PRESENTATIONS

Invited

University of Birmingham, Birmingham, England (2026)
Leibniz Institute of Freshwater Ecology and Inland Fisheries (IGB), Berlin, Germany (2026)
University of Bern, Bern, Switzerland (2025)
Karlstad University, Karlstad, Sweden (2025)
University of Aberdeen, Aberdeen, Scotland (2025)
Bangor University, Bangor, Wales (2024)
University of Edinburgh, Edinburgh, Scotland (2024)
University of Lausanne, Lausanne, Switzerland (2024)
University of Freiburg, Freiburg im Breisgau, Germany (2024)
University of Edinburgh, Edinburgh, Scotland (2023)
University of Neuchâtel, Neuchâtel, Switzerland (2023)
Stanford University, Palo Alto, USA (2023)
Ben-Gurion University of the Negev, Midreshet Ben-Gurion, Israel (2022)
University of Oxford, Oxford, England (2021)
Leibniz Institute of Freshwater Ecology and Inland Fisheries (IGB), Berlin, Germany (2021)
Norwegian University of Science and Technology, Trondheim, Norway (2020)

Contributed

3rd Joint Congress on Evolutionary Biology, Montreal, QC, Canada (2024): "Parasite-mediated inbreeding depression: insights from a long-term study of a wild vertebrate" Authors: **A. Z. Hasik**, A. M. Hewett, J. M. Pemberton.

International Congress on Parasites of Wildlife, Kruger National Park, South Africa (2022): "Evolutionary drivers of bacterial dynamics among sympatric host species". Authors: **A. Z. Hasik**, R. Rodríguez-Pastor, H. Hawlena

Ecological Society of America, Louisville, KY (2019): "The effects of parasites on species interactions" Authors: **A. Z. Hasik**, A. M. Siepielski.

Ecological Society of America, New Orleans, LA (2018): "The role of predation and competition in mediating host-parasite interactions." Authors: **A. Z. Hasik**, A. M. Siepielski.

PEER REVIEWER FOR:

Functional Ecology, Proceedings of the Royal Society B, Philosophical Transactions of the Royal Society B, Nature Ecology & Evolution, The American Naturalist, PLoS ONE, Freshwater Biology, Evolutionary Ecology, Oecologia, PeerJ, Parasitology, Zoology, The Journal of Evolutionary Biology, Ecology and Evolution, The Journal of Thermal

TEACHING EXPERIENCE

University of Edinburgh (2024-2025)

Evolution and Climate Change: (Lecturer) – Seminar-based course examining the state of progress made in understanding the impacts of climate change on ecology and evolution across terrestrial and marine systems and from large vertebrates to microbes

University of Arkansas (2016-2021)

Principles of Biology: (Lab Instructor) – Introductory biology course with lab-based activities and experiments

Human Anatomy: (Lab Instructor) – Practical overview of human anatomy including dissections of preserved specimens

PROFESSIONAL SOCIETIES:

British Ecological Society, European Society of Evolutionary Biology, Ecological Society of America, Society for the Study of Evolution, Dragonfly Society of the Americas

OUTREACH

Ecology for the Masses (2018-2022) – Website focused on bringing ecology to the non-scientific public. I, along with my coauthors on the website, break down recent ecology research, interview prominent ecologists, and bring attention to current issues in ecology.

Cinematica Animalia (2018-2022) – Podcast focused on breaking down the science behind monster movies. I, along with my co-hosts, discussed the physiology and ecology of the various creatures from cinema.

Field Day at Lake Atalanta (2018-2019) – In the spring semesters I joined other graduate students from the University of Arkansas to work with local elementary school students. We show them a variety of scientific techniques including how to ID a stream, using microscopes to find diatoms, and other activities such as a scavenger hunt, nature walk, and arts and crafts with animal tracks.

REFEREES

Dr. Josephine M. Pemberton (Postdoc advisor)
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Institute of Evolutionary Biology
University of Edinburgh
Edinburgh, Scotland
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Dr. Adam M. Siepielski (PhD advisor)
Associate professor
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Dr. Robert Poulin
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Department of Zoology
University of Otago
Dunedin, New Zealand
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