ADAM ZVANUT HASIK CURRICULUM VITAE

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RESEARCH INTERESTS

Disease Ecology, Food-Webs, Host-Parasite Interactions, Community Ecology, Biogeography, Microevolution, Macroevolution, Host-Parasite Coevolution, Evolvability.

POSTDOCTORAL WORK

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

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, University of 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

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. *Bartonella* infections are prevalent in rodents despite efficient immune responses. *Parasites & Vectors*, 16:315

*Co-first author

- **Hasik**, **A.Z**; King, K.C; Hawlena, H. 2023. Interspecific host competition and parasite virulence evolution. *Biology Letters*, 19: 20220553.
- **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.
- **Hasik**, **A.Z**; Siepielski, A.M. 2022. Parasitism shapes selection by drastically reducing host fitness and increasing host fitness variation. *Biology Letters*, 18: 20220323.
- **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.
- **Hasik**, **A.Z**; Tye, S.P.; Ping, T., Siepielski, A.M. 2021. A common measure of prey immune function is not constrained by the cascading effects of predators. *Evolutionary Ecology*.
- 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
- 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
- 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 PREP

- Albery, G.F.; **Hasik**, **A.Z.**; Morris, S.; Morris, A.; Kenyon, F.; McBean, D.; Pemberton, J.M.; Nussey, D.H.; Firth, J.A. Age-related changes in parasite infection occur independently of behavioural ageing in a wild ungulate. In revision at *Philosophical Transactions of the Royal Society B*.
- **Hasik**, **A.Z**; Bried, J.; Bolnick, D.I.; Siepielski, A.M. Is the local environment more important than within-host interactions in determining coinfection? In revision at the *Journal of Animal Ecology*.
- 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. 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. Submitted to *Nature Communications*.
- **Hasik**, A.Z.; Ilvonen, J.; Suhonen, J.; Beaulieu, J.; Poulin, R.; Siepielski, A.M. Linking parasitism to host diversification. Under review as an invited Opinions article in *Trends in Ecology and Evolution*.
- **Hasik, A.Z.**; Albery, G.F.; Morris, S.; Morris, A.; Maris, K.; Butt, S.; Turner, R.; Pemberton, J.M. Population density drives increased parasitism via greater exposure and reduced resource availability in wild deer. In prep for submission to *Ecology Letters*.
- McTamney, J.M.; **Hasik**, **A.Z.***; Lutermann, H.*. Your personality is infectious: a meta-analysis of host personality and parasitism. In prep for submission.

*Co-senior author

Gómez-Llano, M.; **Hasik, A.Z.**; Joshi, S.; Ping, T.; Powell, D.; Tye, S.; Siepielski, A.M. Apparent maladaptation to predators promotes local competitor coexistence. In prep for submission.

BOOK CHAPTERS

Hasik, A. Z., Ilvonen, J. I., Siepielski, A. M., and Murray, R.L. 2023. Odonata Immunity, Pathogen, 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.

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

AWARDS RECEIVED

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) - \$100,000.

Professor Delbert Swartz Endowed Graduate Fellowship (2019) - \$1,300.

PRESENTATIONS

Invited

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

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:

Philosophical Transactions of the Royal Society B, Nature Ecology & Evolution, The American Naturalist, PLoS ONE, Freshwater Biology, Evolutionary Ecology, Oecologia, PeerJ, Parasitology

TEACHING EXPERIENCE

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. Adam M. Siepielski (PhD advisor) Associate professor Department of Biological Sciences University of Arkansas Fayetteville, AR, USA 72701 Email: amsiepie@uark.edu

Dr. Miguel Gómez-Llano Assistant lecturer Department of Biology Karlstad University Karlstad, Sweden CH4M+H2 Email: miguel.gomez@kau.se

Dr. Erik I. Svensson (Master's advisor)
Professor
Department of Biology - Evolutionary Ecology Unit
Lund University
Lund, Sweden SE-223
Email: erik.svensson@biol.lu.se