E TUSCHHOFF

Tucson, AZ

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Education

Ph.D., Ecology and Evolutionary Biology — 2025
University of Arizona, Tucson, AZ
Advisor: John Wiens

B.S., Ecology and Evolutionary Biology — 2018
Spanish Language Minor
University Honors Program
University of Kansas, Lawrence, KS
Advisors: Carl Hutter, Rich Glor

Research Skills and Focus

Research Focus: sexual selection, phylogenetics, macroevolution, diversification, mate choice, mate competition, visual traits, tetrapods

Research Methods: phylogenetic comparative methods, meta-analysis, large datasets, character matrices

Skills: R, Microsoft Excel

Publications

3. **Tuschhoff, E.**, and Wiens, J. J. Evolution of sexually selected traits across animals. *Frontiers in Ecology and Evolution* **11**, 104274 (2023).
2. Wiens, J.J. and **Tuschhoff, E**. Songs versus colours versus horns: what explains the diversity of sexually selected traits? *Biol. Rev.* **95**, 847-864 (2020).
1. **Tuschhoff, E**, Hutter, C.R., Glor, R.E. Improving sustainable use of genetic resources in biodiversity archives. *PeerJ* **8**, e8369 (2020).

Awards

Graduate Award in Teaching nominee — 2025
Evolution Meeting 2025 Logo Contest ($300) — 2024
Galileo Circle Scholarship ($2000) — 2024
Melissa Beth “Spike” Evans Memorial Scholarship — 2017
Center for Undergraduate Research Grant ($1000, awarded twice) — 2016, 2017

Presentations

Evolution of sexually selected traits across animals [Poster presentation]. Evolution Meeting; July 2024.

Now you see me, now you don't: Visual sexually selected traits in Tetrapoda. EEB Tuesday Seminar; February 2024.

Understanding and using phylogenetic trees in your research. EEB Tuesday Seminar; April 2023.

Let's talk about sex(ual selection): Current research and future directions. EEB Tuesday Seminar; April 2022.

Evolution of sexually selected traits across animals. EEB Tuesday Seminar; October 2020.

Practice makes…imperfect?: Innate preferences in a mimicry system. EEB Tuesday Seminar; March 2019.

Bugs in the system: A desert mutualism in an urban environment. EEB Tuesday Seminar, December 2018.

The birds & the bees: Analyzing the distribution of sexual selection in Animalia. EEB Tuesday Seminar; October 2018.

Teaching

Instructor of Record

Pima Community College BIO 182IN: General Biology II	Fall 2025

Lead Teaching Assistant

UA ECOL 182L: Introductory Biology II Lab (CURE Curriculum)	Spring 2025
UA ECOL 483/583: Herpetology	Spring 2022

Teaching Assistant

UA ECOL 182L: Introductory Biology II Lab (CURE Curriculum)	Fall 2024
	Spring 2024
	Fall 2023
UA ECOL 182L: Introductory Biology II Lab (Biology Overview Curriculum)	Spring 2023
	Fall 2019
	Spring 2019
	Fall 2018
UA ECOL 487L: Animal Behavior Lab	Fall 2022

UA ECOL 487R: Animal Behavior Lecture	Fall 2022
UA ECOL 483/583: Herpetology	Spring 2020

Online Teaching Assistant

UA ECOL 182R: Introductory Biology II Lecture	Summer 2024
	Summer 2020
UA ECOL 220: Evolutionary Medicine	Fall 2021
	Summer 2021
	Summer 2020
UA ECOL 223: Human Genetics and Evolution	Fall 2021
UA ECOL 170C1: Animal Sexual Behavior	Spring 2021
UA ECOL 206: Environmental Biology	Spring 2021
UA ECOL 326: Introduction to Genomics	Fall 2020

Teaching Philosophy

- Honest communication: clearly communicate teaching decisions to diverse students across backgrounds and majors through the use of rubrics, daily objectives, and course objectives
- Learning through failure: share my own failures with students and encourage them to do the same to promote learning and reduce the stigma of failure, especially for students from underrepresented backgrounds in STEM
- Creative course design: use learner-centered approaches drawing from universal design for learning practices, such as a plus-one approach, to better connect students to material
- Creative problem solving: focus on providing students with a toolbox to solve problems, including encouraging students to use their own funds of knowledge, and rewarding thoughtful approaches to challenges over memorization

Mentoring

University of Arizona Undergraduate Researchers

Sophie Buonomo	2023-2024
Giovanni Borrero	2023
Bailey Daugherty	2023
Particia Durham	2023
Madison Kogachi	2023

Abigail Pearse	2023
Brynn Taylor	2023

Mentorship focus

- Topic: Sexually selected traits in tetrapods
- Setting: Mentees worked remotely and independently following data gathering procedures, then discussed progress in weekly group and one-on-one meetings.
- Skills focus: reading scientific papers, Google Scholar, Mendeley citation management tools, Microsoft Excel, scientific communication, collaboration
- Mentee diversity: Mentees came from a wide variety of majors including veterinary science, ecology and evolutionary biology, and pre-med. Mentees ranged from first year college students to graduating seniors to non-traditional students seeking additional degrees. Mentees were predominantly women, including three women of color.

Service and Outreach

Professional Service

System BIO-LEAPS Early Career Research Focus Group	2024-2025
American Society of Naturalists Diversity Zine	2024

Community and Public Outreach

Tucson Festival of Books EEB Booth	2025
Junior Science and Humanities Symposium Judge	2023
Queerd Science Burlesque Show	2023

Departmental Service

EEB CARE committee (Code of Conduct subcommittee chair)	2022-2025
Undergraduate Poster Session Judge	2023, 2024

Professional Development

Center for the Integration of Research, Teaching, and Learning	2023-2025
University of Arizona Faculty Learning Community on Nontraditional Students	2024