

**Mysia L. Dye, Ph.D**  
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## **EDUCATION AND ACADEMIC POSITIONS**

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<b>Lecturer in Biology, Whitman College</b>	August 2024 –Present
<b>Postdoctoral Research Associate, Texas A&amp;M University</b> <i>PI: Dr. Rachel Moran</i>	June 2023 – August 2024
<b>Ph.D., Biological Science, Florida State University</b> <i>Adviser: Dr. Emily Moriarty Lemmon</i> <i>Dissertation: Investigating Processes of Speciation at Multiple Scales in Chorus Frogs (Pseudacris)</i>	May 2023
<b>M.S., College STEM Teaching, Florida State University</b>	December 2021
<b>B.S., Ecology and Evolutionary Biology, Tulane University</b> <i>Summa cum laude, Departmental Honors</i>	May 2016

## **PUBLICATIONS** \*denotes undergraduate researcher

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- M. Dye**, A.R. Lemmon, and E.M. Lemmon. 2024. Female chorus frogs delay mate choice under sub-optimal conditions. *Animal Behavior*, 209, 215-226.
- C.B. Anderson, O. Ospina, P. Beerli, A.R. Lemmon, S.E. Banker, A.B. Hassinger, **M. Dye**, M.L. Kortyna and E.M. Lemmon. 2023. The population genetics of speciation by cascade reinforcement. *Ecology and Evolution*, 13(2), e9773.
- O.E. Ospina, A.R. Lemmon, **M. Dye**, C. Zdyrski\*, S. Holland, D. Stribling, M.L. Kortyna, and E.M. Lemmon. 2021. Neurogenomic divergence during speciation by reinforcement of mating behaviors in chorus frogs (*Pseudacris*). *BMC Genomics*, 22(1), 1-23.
- S.E. Banker, E.M. Lemmon, A. Bigelow, **M. Dye**, S. Holland, M. Kortyna, and A.R. Lemmon. 2020. Hierarchical hybrid enrichment: multitiered genomic data collection across evolutionary scales, with application to chorus frogs (*Pseudacris*). *Systematic Biology*, 69(4), 756-773.
- A.M. Makowicz, M.J. Daniel, B.C. Jones, P.R. Rivers, **M. Dye**, M.R. Kuzel, A.G. Guerrero, S. Kettelkamp, C. Witcher, and E.H. DuVal. 2020. Foundations and Frontiers in Mate Choice Review of: Rosenthal, G. 2017. *Mate Choice: The Evolution of Sexual Decision Making from Microbes to Humans*. *Evolution*, 74(7), 1575-1583.
- M. Dye**, A.R. Lemmon, and E.M. Lemmon. *In Prep (full manuscript available upon request)*. Reinforcement drives the evolution of increased variation in temperature-driven acoustic plasticity.

**M. Dye**, M.L. Kortyna, A.R. Lemmon, and E.M. Lemmon. *In Prep (full manuscript available upon request)*. Reinforcing selection and cline evolution over half a century in the Upland chorus frog (*Pseudacris feriarum*).

**M. Dye**, K.R. Hillman\*, A. Wang\*, O.E. Ospina, A.R. Lemmon, and E.M. Lemmon. *In Prep (full manuscript available upon request)*. Multiple axes of divergence maintain species boundaries in a four species contact zone of chorus frogs (*Pseudacris*).

**PRESENTATIONS** \*denotes undergraduate researcher

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**M. Dye**, and R. L. Moran. 2024. Uncovering incompatibilities in sex determining regions in darters. 3<sup>rd</sup> Joint Congress on Evolutionary Biology, Montreal, QC, Canada (Talk).

I. Mendoza\*, **M. Dye**, and R. L. Moran. 2024. Characterizing genetic variation in hormonal pathways associated with the evolution of parental care in darters. 3<sup>rd</sup> Joint Congress on Evolutionary Biology, Montreal, QC, Canada (Poster).

N. Povelikin\*, **M. Dye**, L. Barrow, C. McDaniels, A.R. Lemmon, and E.M. Lemmon. 2024. Abiotic drivers of genetic structure in the *Pseudacris regilla* complex. 3<sup>rd</sup> Joint Congress on Evolutionary Biology, Montreal, QC, Canada (Poster).

B. Johnson, T. Black, **M. Dye**, C. Kopack, K. Bryan, R. L. Moran. The effect of mate choice, competition, and physiology on hybrid swarm dynamics in darters. 2024. 3<sup>rd</sup> Joint Congress on Evolutionary Biology, Montreal, QC, Canada (Poster).

**M. Dye**, and E.M. Lemmon. 2023. Reinforcing selection and cline evolution over half a century in the upland chorus frog. Society for the Study of Evolution, Albuquerque, NM (Talk).

**M. Dye**, and E.M. Lemmon. 2021. Uncovering the effects of environment on mating behaviors. Society for the Study of Evolution, Virtual (Faux-Live Talk) .

K.R. Hillman\*, **M. Dye**, and E.M. Lemmon. 2021. Investigating factors promoting speciation through comparing frog hybrid zone. Society for the Study of Evolution, Virtual (On-Demand Talk).

**M. Dye**, and E.M. Lemmon. 2019. Using phylogenomic data to identify species boundaries in a contact zone. Society for the Study of Evolution, Providence, RI (Talk).

**M. Dye**, and E.M. Lemmon. 2018. Detecting changes in male advertisement calls across a hybrid zone over fifty generations. International Society for Behavioral Ecology, Minneapolis, MN (Poster Presentation).

**M. Dye**, and E.M. Lemmon. 2017. Foundations for defining species boundaries in a four species contact zone (Hylidae: *Pseudacris*). Society for the Study of Evolution, Portland, OR (Poster Presentation).

**M. Dye**, and C.L. Richards-Zawacki. 2015. Timing and development of coloration in Strawberry Poison Frogs (*Oophaga pumilio*). Center for Engaged Learning and Teaching Poster Session, Tulane University, New Orleans, LA (Poster Presentation)

## TEACHING EXPERIENCE

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<b>Instructor of Record</b> —Eco, Evo, & Diversity Lab (BIOL101L) <i>Department of Biology, Whitman College</i>	Fa24
<b>Instructor of Record</b> —Eco, Evo, & Diversity (BIOL101) <i>Department of Biology, Whitman College</i>	Fa24
<b>Instructor of Record</b> —Experimental Biology (BSC3402L) <i>Department of Biological Sciences, Florida State University</i>	Sp23
<b>Instructor of Record</b> —Evolution (PCB4674) <i>Department of Biological Sciences, Florida State University</i>	Su21
<b>Guest Lecturer</b> —Bioinformatics (BIOL451) Using BLAST for Evolutionary Biology <i>Department of Biology, Texas A&amp;M University</i>	Fa23
<b>Guest Lecturer</b> —Biogeography (BSC4821C) Human Biogeography <i>Department of Biological Sciences, Florida State University</i>	Fa22
<b>Guest Lecturer</b> —Evolution (PCB4674) Speciation <i>Department of Biological Sciences, Florida State University</i>	Su17, Su20
<b>Guest Lecturer</b> —Introductory Biology for Non-Majors (BSC1005) Evolution and Biodiversity <i>Science and Mathematics, Tallahassee Community College</i>	Fa20
<b>Graduate Teaching Assistant</b> Biogeography (BSC4821C) <i>Department of Biological Sciences, Florida State University</i>	Sp18, Sp22, Fa22
<b>Graduate Teaching Assistant</b> —Introductory Biology Lab II (BSC2011L) <i>Department of Biological Sciences, Florida State University</i>	Su22
<b>Graduate Teaching Assistant</b> —Animal Behavior (ZOO4513) <i>Department of Biological Sciences, Florida State University</i>	Fa21
<b>Graduate Teaching Assistant</b> Evolution (PCB2674) <i>Department of Biological Sciences, Florida State University</i>	Su15 Fa17
<b>Graduate Teaching Assistant</b> Introductory Biology Lab I (BSC2010L) <i>Department of Biological Sciences, Florida State University</i>	Sp17
<b>Graduate Teaching Assistant</b> Experimental Biology (BSC3402L) <i>Department of Biological Sciences, Florida State University</i>	Fa16
<b>Undergraduate Teaching Fellow</b> —Diversity of Life Lab (EBIO1015) <i>Ecology and Evolutionary Biology Department, Tulane University</i>	Fa14-Sp16

## **UNDERGRADUATES MENTORED** *\*denotes honors thesis student*

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- Isabelle Mendoza\*, Texas A&M University (Moran Lab), 2023-Present
- Halle Hagdorn, Texas A&M University (Moran Lab), 2023-2024
- Abby Saegert, Texas A&M University (Moran Lab), 2023-2024
- Nicole Povelikin\*, Florida State University (Lemmon Lab), 2021-Present
- Maia Erbes, Florida State University (Lemmon Lab), 2023
- Kylee Hillman\*, Florida State University (Lemmon Lab), 2019-2022
- Sydney Jansen, Florida State University (Lemmon Lab), 2021
- Rachel Baugh, Florida State University (Lemmon Lab), 2017
- Kristen Solt, Florida State University (Lemmon Lab), 2017
- Anni Wang\*, Florida State University (Lemmon Lab), 2016-2017

## **HONORS AND AWARDS**

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National Science Foundation Graduate Research Fellowship, 2018

Tulane 34 Award, Tulane University, 2016

Fred. R. Cagle Memorial Prize, Tulane University, 2016

Senior Honors Scholar in Ecology and Evolutionary Biology, Tulane University, 2016

## **RESEARCH FUNDING**

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American Philosophical Society Lewis and Clark Field Research Grant (\$1200), 2020

Animal Behavior Society Student Research Grant (\$1500), 2019

Louisiana Supervised Undergraduate Research Experience (\$4,000), 2015

CELT Undergraduate Research Grant (\$2,000), 2014

## **OUTREACH**

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**“Reading Scientific Papers”:** Workshop for Students, Florida State University, 2020-2022

**Panelist:** GRFP Workshop, Florida State University, 2018-2022

**Welcome Committee Member:** Biological Sciences, Florida State University, 2022

**Skype a Scientist:** Online School Visits (8 Classrooms), 2018-2020

**Science Fair Judge:** Trinity Catholic School, 2019

**“Foraging Ecology”:** Leon County Virtual School Lesson for Middle School, 2018

**Volunteer:** Tallahassee Science Festival, 2017-2019

**Executive Board Member:** Tulane Women in Science, 2013-2016

**Program Developer and Volunteer:** GiST in Schools, 2015-2016

**Volunteer:** Girls in STEM at Tulane (GiST), Tulane University, 2013-2016

**Education Intern:** Seacoast Science Center, Rye, NH, 2014

**Public Service Intern:** Girls in STEM at Tulane (GiST), 2014

## **PROFESSIONAL SERVICE**

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**Reviewer:** Herpetological Conservation and Biology Journal, Ethology Journal & Behavioral Ecology Journal

**Treasurer:** Ecology and Evolution Research Discussion Group, Florida State University, 2019-2020

## **PROFESSIONAL DEVELOPMENT**

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Society for the Study of Amphibians and Reptiles Workshop: The fieldwork that we envision: A future of equitable field biology and reciprocity with the local communities (April 2023)

PIE Biannual Teaching Conference (December 2022)

Mentoring Up Workshop, Florida State University (April 2021)

Inclusive Teaching Practices Workshop, Florida State University (February 2021)

Summer Institute on Education, Equity, and Justice, American University School of Education (June 2020)

## **PROFESSIONAL AFFILIATIONS**

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Society for the Study of Evolution

Society for the Study of Animal Behavior

International Society for Behavioral Ecology