

Austen Ehrie

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Education

2022-Present	Texas A&M University Ph.D. Biology, Fitzpatrick Laboratory
2018-2022	Indiana University Bloomington, Highest Distinction B.S. (Honors) Animal Behavior Minor: Anthropology B.A. Environmental and Sustainability Studies Concentration: Biodiversity and Sustainability

Talks and Presentations

****Presentation Award *Honorable Mention**

March 2023	Ecological Integration Symposium (EIS); Talk; College Station, TX <ul style="list-style-type: none">Measuring Mantled Howler Monkey (<i>Alouatta palliata</i>) Testes via Parallel Laser Photogrammetry: Expanding the Use of Non-Invasive Methodologies
March 2023	TAMU Wide Student Research Week; Talk; College Station, TX <ul style="list-style-type: none">Measuring Mantled Howler Monkey (<i>Alouatta palliata</i>) Testes via Parallel Laser Photogrammetry: Expanding the Use of Non-Invasive Methodologies
February 2023	Life on a Dynamic Plant Symposium; Poster Presentation; College Station, TX <ul style="list-style-type: none">Measuring Mantled Howler Monkey (<i>Alouatta palliata</i>) Testes via Parallel Laser Photogrammetry: Expanding the Use of Non-Invasive Methodologies
February 2023	TAMU Biology Student-Postdoc Research Conference; Poster Presentation; College Station, TX <ul style="list-style-type: none">Measuring Mantled Howler Monkey (<i>Alouatta palliata</i>) Testes via Parallel Laser Photogrammetry: Expanding the Use of Non-Invasive Methodologies
January 2023	The Society of Integrative and Comparative Biology (SICB); Poster Presentation; Austin, TX <ul style="list-style-type: none">Measuring Mantled Howler Monkey (<i>Alouatta palliata</i>) Testes via Parallel Laser Photogrammetry: Expanding the Use of Non-Invasive Methodologies

March 2022	Indiana University Animal Behavior Conference (ABC); Poster Presentation; Bloomington, IN <ul style="list-style-type: none"> • “Neurogenomic profiles of reproductive behavior in Northern Jacanas”*
January 2022	The Society of Integrative and Comparative Biology (SICB); Poster Presentation; Phoenix, AZ <ul style="list-style-type: none"> • “Neurogenomic profiles of reproductive behavior in Northern Jacanas”
October 2021	Society for Advancing Chicanos and Native Americans in Science (SACNAS); Poster Presentation; Virtual <ul style="list-style-type: none"> • “Neurogenomic mechanisms of parental care in a sex-role reversed species”**
23 July 2021	Indiana University Animal Behavior NSF REU Symposium; Talk; Virtual <ul style="list-style-type: none"> • “Neurogenomic mechanisms of parental care in a sex-role reversed species”

Research Grants and Monetary Awards (\$5,850 Total)

November 2022	SICB Professional Development Award- \$500
May 2022	Center for the Integrative Study of Animal Behavior (CISAB) Summer Research Grant- \$1000
May 2022	Hutton Honors Research Grant- \$3000
December 2021	Hutton Honors Travel Grant Award- \$600
November 2021	CISAB Travel Grant Award- \$750

Honors and Recognition

April 2022	Indiana University Anthropology Voegelin Undergraduate Writing Contest Honorable Mention
March 2022	Indiana University’s Founders Scholar
November 2021	Phi Beta Kappa Honors Society
Fall 2021-Spring 2022	O’Neill Hudson and Holland Partnership Scholarship
Fall 2018-Spring 2022	Indiana University’s Dean’s List

- Fall 2018-Spring 2022 Hudson and Holland Scholar
- Scholarship program for high-achieving underrepresented minorities

Research Experience

- Spring 2023-Present For my dissertation, I am currently examining how social dynamics and life experience affects the probability of conception in the Amboseli population of yellow baboons (*Papio cynocephalus*) using longitudinal data. Fieldwork plans are currently being developed.
- Supervisor: Courtney Fitzpatrick
- Winter 2021 -Summer 2022 NSF IRES Fellow; Primate Environmental Endocrinology Lab, Indiana University
- Developed an independent NSF IRES project and senior honors research thesis and conducted fieldwork in Costa Rica from May to August
 - Tested whether parallel laser photogrammetry could be used to non-invasively measure the testes of mantled howler monkeys (*Alouatta palliata*)
 - Techniques Learned: Hormone EIAs, behavioral all-occurrence and focal sampling, parallel laser photogrammetry, ImageJ
 - Supervisor: Dr. Michael Wasserman
- July-Dec 2021 Research Assistant; Rosvall Lab, Indiana University
- Continued my NSF REU research project--see below.
- May-July 2021 NSF REU Fellow; Rosvall Lab, Indiana University
- Investigated the neurogenomic profiles of reproductive behaviors in a sex-role reversed shorebird species (*Jacana spinosa*)
 - Techniques Learned: Neuroanatomical Atlas Development, Cryosectioning, Micropunching, RNA Extraction
 - Supervisors: Dr. Sara Lipshutz and Dr. Kim Rosvall

Teaching and Mentoring Experience

Mentorship of Undergraduate Student

- Trained an undergraduate (Heidi Williamson) to make PLP-derived morphological measurements using ImageJ in the Fitzpatrick Lab

Introductory Biology II (BIOL 112) Lab Instructor: Texas A&M University

- Responsible for guiding students through biological procedures and experiments using fundamental biological tools with a focus on biodiversity
- Semesters Taught: Spring 2023 (48 students)

Introductory Biology I (BIOL 111) Lab Instructor: Texas A&M University

- Responsible for guiding students through biological experiments using fundamental biological tools with a focus on molecular and cellular biology
- Semesters Taught: Fall 2022 (46 students)

Introduction to Chimpanzee Behavior and Cognition Teaching Assistant: Indiana University

- Aided students with course material and acted as a mediator between student and professor
- Semesters Taught: Fall 2021 (25 students)

Sister Species: Introduction to the Chimpanzee Teaching Assistant: Indiana University

- Aided students with course material and had regular one-on-one meetings with students
- Semesters Taught: Spring 2021 (120 students)

Research Skills

- Laboratory procedures- pipetting, dilutions, sterilization, cryosectioning neural tissue, microdissecting, RNA extraction, hormone EIAs
- Field methodologies- Behavioral all-occurrence sampling, focal sampling, parallel laser photogrammetry, environmental data
- Comfortable with Microsoft Applications- Word, PowerPoint, Excel
- Software comprehension- ImageJ, SLEAP,
- Statistical/Coding Program Experience: Jamovi, R, SQL

Extracurricular Activities

Summer 2021 Indiana University Behavior & Physiology Journal Club

February-March 2020 William R. Adams Zooarchaeology Lab Volunteer

- Helped to organize fossils and update records

Research Interests

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| • Non-Human Primates | • Mating Behavior |
| • Sexual Selection | • Reproduction |
| • Mating Systems | • Parenting |

References

Dr. Courtney Fitzpatrick; Principal Investigator
Assistant Professor
Texas A&M University, College Station

Department of Biology and Ecology and Evolutionary Biology Interdisciplinary Program
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Dr. Sara Lipshutz; Postdoctoral Research Mentor in Rosvall Lab
Assistant Professor
Loyola University, Chicago
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Dr. Michael Wasserman; Principal Investigator and IRES Supervisor
Associate Professor
Indiana University, Bloomington
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Dr. Kevin Hunt; Mentor and UTA Supervisor
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