

# Lauren Meckler

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## EDUCATION

### University of California, Davis

PhD Student, Biopsychology

Davis, CA  
*expected 2028*

### University of Delaware

Bachelor of Science in Neuroscience, *summa cum laude*

Newark, DE  
2019

- Honors Degree with Distinction
- Supported through the UD Trustee Scholarship, Donald Harward Research Fellowship, and Summer Scholars Research Fellowship

## RELEVANT EXPERIENCE

\* *Indicates peer-reviewed/in-progress publication associated with position*

### Bales Lab, California National Primate Research Center

Junior Specialist

Davis, CA  
June 2022 – May 2023

- Conducted data collection of behavioral records and provided support in non-invasive PET scans
- Managed records and provided oversight for Non-Human Primates (NHP), collaborating effectively with veterinary staff

### Wallis Lab, UC Berkeley

Staff Research Associate/Lab Manager

Berkeley, CA  
May 2020 – May 2022

- Collaborated on a reinforcement learning modeling project with rhesus macaques. Designed, coded, and implemented NHP experiments to assess learning and decision-making
- Assisted as an assistant surgeon and non-sterile surgery technician during surgeries. Oversaw inventory management and maintained records for animal health and surgeries
- Led training and onboarding sessions for new students and staff. Facilitated inter-departmental meetings on research, equipment, lab procedures, and Non-Human Primate (NHP) health

### George Miksch Sutton Avian Research Center

Aviculture Intern

Bartlesville, OK  
June 2019 – October 2019

- Analyzed the impact of varied rearing conditions on egg hatchability and chick survivability for the endangered grouse
- Conducted an independent literature review to inform the development of new housing protocols. Additionally, wrote and presented programming on endangered bird conservation at various fundraising events

### Neunuebel Neuroscience Lab, University of Delaware

Undergraduate Research Assistant

Newark, DE  
September 2016 – June 2019

- Wrote and successfully defended an honors undergraduate thesis (2019), focusing on the impact of the estrous cycle on male and female mouse behavior and vocalizations
- Analyzed behavioral changes in males and female vocal activity using customized Matlab software

### Healthcare Theatre, University of Delaware

Teaching Assistant

Newark, DE  
September 2018 – June 2019

- Coordinated with Nursing and Theater staff to develop high fidelity simulations for nursing students and Newark EMT trainees
- Participated in simulations to instruct on topics like empathetic listening and motivational interviewing. Additionally, mentored novice student actors in interpersonal communication

**Konrad Lorenz Institute for Comparative Behavioral Research, University of Vienna**  
**Smithsonian Tropical Research Institute, Gamboa, Panama**

Research Assistant January 2018 – April 2018

- Contributed to a study on sexual selection in Golden Collared Manakins (*Manacus vitellinus*)
- Captured study subjects to collect biological samples and mark them for later identification. Additionally, recorded and digitized demographic information for each study subject

**\*Pfister Lab, Harvard University**      **Smithsonian Tropical Research Institute, Gamboa, Panama**

Research Assistant June 2017 – July 2017

- Explored Neotropical bat ectoparasite taxonomy and biological diversity
- Processed and digitized all demographic data for over 200 study subjects. Worked both individually and in a team (2-6 people) in Gamboa field sites and during a biological diversity survey on Chucanti Mountain Nature Preserve
- Led demonstrations on tropical bat ecology at Gamboa Bat Night

**UD Interdisciplinary Science & Engineering Lab**      **Newark, DE**

DISCOVERY Workshop Research Collaborator December 2016 – January 2017

- Compiled resources highlighting interdisciplinary principles in STEAM for local teachers
- Made resources publicly available through the 2017 Delaware Interdisciplinary STEM Citizen Science Project

**\*Bennett Lab, Brown University**      **Providence, RI**

Research Assistant June 2016 – August 2016

- Conducted bench work to assess the impact of various drugs on spore growth of *P. destructans*
- Utilized independent scientific literature reviews to establish experimental concentrations and designed/implemented experiments to identify safe drug concentrations for natural cave systems

**Philadelphia Zoo**      **Philadelphia, PA**

Environmental Education and Animal Behavior Intern January 2016 – March 2016

- Designed and implemented a behavioral study on the impact of age on African lion (*Panthera leo*) locomotion. Presented the final results to the public and zoo staff
- Led educational programs on local and global conservation efforts for elementary and middle school children

**PUBLICATIONS**

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Meckler, L. (2019). *Differences in male and female mouse ultrasonic vocalizations and behaviors throughout the female reproductive cycle* (Unpublished undergraduate thesis). University of Delaware, Newark, DE.

Beekman CN, Meckler L, Kim E, Bennett RJ. (2018). *Galleria mellonella* as an insect model for *P. destructans*, the cause of White-nose Syndrome in bats. *PLOS ONE*, 13(9).

Walker MJ, Dorrestein A, Camacho JJ, Meckler LA, Silas KA, Hiller T, Haelewaters, D. (2018). A tripartite survey of hyperparasitic fungi associated with ectoparasitic flies on bats (Mammalia: Chiroptera) in a neotropical cloud forest in Panama. *Parasite*, 25(19).

**PRESENTATIONS**

- Meckler, L.,** Baxter, A., Bales, K. L. (2024, September 8-11). *Associations between infant attachment and adult actor effects in pair-housed titi monkeys* [Poster session]. American Society of Primatologists (46<sup>th</sup> Annual Meeting), Riviera Maya, Mexico.
- Meckler, L.** (2022, January 17). *Male and female mouse vocalization and social behaviors across the female reproductive cycle* [Invited speaker]. UC San Francisco Colloquium, San Francisco, CA, United States.
- Meckler, L.,** Warren, M. R., Spurrier, M. S., Roth, E. D., Neunuebel, J. P. (2018, November 30). *Using sound source localization to investigate the impact of the reproductive cycle on mouse social expression* [Poster session]. Delaware Neuroscience Symposium, Newark, DE, United States.
- Meckler, L.,** Warren, M. R., Spurrier, M. S., Roth, E. D., Neunuebel, J. P. (2017, December 4). *Using sound source localization to investigate the impact of the reproductive cycle on mouse vocal expression* [Poster session]. Delaware Neuroscience Symposium, Newark, DE, United States.
- Meckler, L.,** Warren, M. R., Spurrier, M. S., Roth, E. D., Neunuebel, J. P. (2017, November 11-15). *Using sound source localization to investigate the impact of the reproductive cycle on mouse vocal expression* [Poster session]. Neuroscience 2017 (47th Annual Meeting of the Society for Neuroscience), Washington, D.C., United States.

**SCHOLARSHIPS AND FELLOWSHIPS**

<b>UC Davis First-Year Psychology Department Research Fellowship</b> (\$9,120)	2023
<b>Donald Harward Honors Research Fellowship</b> (\$600)	2019
<b>UD Undergraduate Research Program Summer Scholars Fellowship</b> (\$4,000)	2018
<b>University of Delaware Trustee Scholarship</b> (\$68,000)	2015 – 2019

**AWARDS**

<b>National Science Foundation Graduate Research Fellowship Honorable Mention</b>	2023
<b>UD Department of Brain Sciences' Neuroscience Award</b>	2019
<b>2<sup>nd</sup> Place Undergraduate Research Presenter, DE Neuroscience Symposium</b>	2018
<b>3<sup>rd</sup> Place Undergraduate Research Presenter, DE Neuroscience Symposium</b>	2017
<b>University of Delaware Honors Award</b>	2017
<b>University of Delaware Dean's List</b>	2015 – 2019

**LEADERSHIP**

<b>The Wildlife Society at UD President</b>	<b>Newark, DE</b> 2018 – 2019
<b>The Wildlife Society at UD Secretary</b>	<b>Newark, DE</b> 2017 – 2017
<b>The Wildlife Society at UD Social Media Chair</b>	<b>Newark, DE</b> 2016 – 2017

**SERVICE WORK**

<b>Out in Stem (oSTEM)</b>	2023 – Present
<b>Psychology Student Association</b>	2023 – Present
<ul style="list-style-type: none"> <li>• Currently serving as an Alternative Graduate Student Representative</li> </ul>	
<b>The Wildlife Society</b>	2015 – 2019
<ul style="list-style-type: none"> <li>• Served as TWS President (2018-19), Secretary (2017-18), Social Media Chair (2016-17)</li> <li>• Coordinated professional speakers from UD and local non-profits for member meetings</li> <li>• Planned trips and events for members' professional development, working with organizations including the National Resources Defense Council and the Center for Biological Diversity</li> </ul>	
<b>Aark Wildlife Rehabilitation and Education Center</b>	2013 – 2016
<ul style="list-style-type: none"> <li>• Volunteered as a wildlife rehabilitator, caring for injured and orphaned North American wildlife</li> </ul>	

- Led informational presentations on local wildlife and conservation initiatives at biannual Open Houses for the public

**PROFESSIONAL AFFILIATIONS**

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**Nu Rho Psi: the Neuroscience Honors Society**

**Sigma Xi: the Scientific Research Honor Society**, sponsored by the UD Chapter of Sigma Xi

**Phi Beta Kappa Honors Society**