

Curriculum vitae
Claire L. O'Connell

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EDUCATION

B.S.	Wildlife, Fisheries and Aquaculture, Concentration: Veterinary Medicine Mississippi State University. Starkville, MS GPA: 3.6/4.0 Independent Project: Horizontal and Vertical Camera Trapping Designs Produce Different Species Richness in Carrion Food Webs Advisor: Marcus Lashley, Leslie Burger	May 2019
PhD Student	Ecology, Evolution, and Behavior University of Cincinnati Advisor: Elizabeth Hobson	Present

RESEARCH INTERESTS

Social networks, dominance hierarchies, social relationships, group structure and stability

PUBLICATIONS

Journal Articles

van der Marel, A., Prasher, S., Carminito, C., O'Connell, C. L., Phillips, A., Kluever, B. M., & Hobson, E. A. (2021). A framework to evaluate whether to pool or separate behaviors in a multilayer network. *Current Zoology*, 67(1), 101–111. <https://doi.org/10.1093/cz/zoaa077> preprint available: <https://arxiv.org/abs/2007.09743>

Preprint

van der Marel, A., O'Connell, C. L., Prasher, S., Carminito, C., Francis, X., & Hobson, E. A. (2021). A comparison of common behavioral observation software applications and recommendations for use. *ArXiv:2103.07576 [Cs]*. <http://arxiv.org/abs/2103.07576>

Media

“Twitter fight: birds use social networks to pick opponents” By Mike Miller	June 2020
“When push comes to shove, what is a fight?” By Mike Miller	January 2021

AWARDS / HONORS

Honors

Dean's List, <i>Mississippi State University</i>	2018-2019
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Awards

Society for the Study of Evolution Scholarship	April 2021
American Ornithological Society Student Membership Award	2020
University of Cincinnati Graduate Student Scholarship	2019 - Present
Mississippi State University Scholarship	2015-2019

PRESENTATIONS

- Horizontal and Vertical Camera Trapping Designs Produce Different Species Richness in Carrion Food Webs. Poster presentation. *The Wildlife Society*. Cleveland, OH. **October 2018**
- A comparison of common behavioral observation software applications and recommendations for use. Poster presentation. *Animal Behavior Society*. **August 2021**

PROFESSIONAL MENTORSHIP / LEADERSHIP

Penguin Data Club Mentor	2020 - Present
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RESEARCH EXPERIENCE

Monk Parakeet Research Technician. *March 2020*

USDA National Wildlife Research Center. Gainesville, FL.

- Re-sighted and collected behavioral data on a captive population of monk parakeets (*Myiopsitta monachus*)
- Mist-netted and weighed monk parakeets

Acorn Woodpecker Research Technician.

August 2019– April 2020

Hastings Natural History Reserve. Carmel Valley, CA.

- Re-sighted and monitored color-banded individual woodpeckers within 42 distinct breeding groups and maintained 45 stationary telemetry base stations used to locate woodpeckers
- Collected and organized data in the field and lab and gained experience troubleshooting raspberry pi computers and solar panels
- Helped set up ambushes in the roosting cavity of acorn woodpeckers to band and to collect biological samples
- Contributed to granary manipulation experiment, vegetation surveys, tick collection, and public outreach

Breeding Bird and Woodpecker Field Technician.

May – July 2019

University of Illinois at Urbana-Champaign, Urbana, IL.

- Conducted point count surveys based on sight and sound to determine the breeding bird richness and abundance throughout managed and unmanaged forests in southern Illinois
- Identified vegetation and collected surveys throughout southern Illinois
- Assisted in mist netting and banding native woodpeckers

- Assist in nest monitoring, mist netting, and banding prothonotary warblers; also assisted in collecting blood samples for genetic relatedness among nestlings and parents

Undergraduate Research Scholar.

Feb. – Oct. 2018

Mississippi State University, Starkville MS.

- Investigated camera trap detection rates at a vertical and horizontal orientations and concluded horizontal camera traps have higher species richness detection rates while vertical camera trap offered a detailed picture of focal object.
- Collected data on and analyzed +30,000 camera trap pictures focused on feral pig carcasses and the species interacting with them

Sea Turtle Research and Conservation Intern

May – August 2018

Mote Marine Laboratory and Aquarium, Sarasota, FL.

- Collected data on all sea turtle crawls, nests, and egg chambers and staked off incubating nests
- Responsible for releasing hatchlings on appropriate beach
- Responsible for all activity and daily tasks on Siesta Key which required independently managing over 35 miles of beaches
- Input data into database and assisted with daily office tasks
- Assisted with tagging and tracking adult female sea turtles

Herbivory Field Technician.

Spring 2018

John Star Wildlife Refuge, Starkville, MS.

- Study the relationship between mass mortality events and herbivory
- Collected soil samples, measured sapling and tree growth and DBH
- Analyzed camera trap pictures; recorded and cataloged data input on Excel spreadsheets

Mississippi Paddlefish Field Technician.

Spring 2018

Research Assistant. Noxubee Wildlife Refuge, Starkville, MS.

- Assisted with setting gillnets and capturing paddlefish
- Measured height and weight and assessed other physiological conditions on live paddlefish
- Assisted with tagging and minor surgeries in the field

Large Carnivore Intern.

May – August 2017

Wild Animal Sanctuary, Boyd, TX

- Prepared diets by weighing and dividing portions and distributed medications
- Constructed and restored habitats for bears, tigers, wolves, lions, and white-nose coatis
- Participated in emotional enrichment program by spending extra time with high anxiety tigers and lions and recording ethograms
- Responsible for daily maintenance of equipment including utility vehicles

TRAINING / SKILLS

<i>Computer Software</i>	Microsoft Word, Microsoft PowerPoint, Microsoft Excel, Netlogo, RStudio
<i>Field work</i>	Eastern US plant identification and surveying (DBH), Avian point counts, Use of scopes, Trapping and tagging birds, fish, and small mammals (PIT tags, mist-netting and extraction, banding), Collecting biological and morphological data (blood samples, hair and feather samples, and weights and other measurements), Behavioral observations, Resighting avian color bands, Working alone in and navigating remote locations with GPS/compass, Hiking 10 – 15 km a day in harsh climates, ATV use, Camera trap setup and data collection; <u>Some experience</u> : Avian nest searching
<i>Animal Care and Husbandry</i>	Care for large carnivore, ungulate, and invasive (monk parakeet) and endangered species (loggerhead and green sea turtles, and bobwhite quail), Identification of stress behaviors, Releasing sea turtles to natural habitat, The Institutional Animal Care and Use Committee (IACUC) Certification, Collaborative Institutional Training Initiative (CITI) Wildlife Research Certification

PROFESSIONAL DEVELOPMENT

Workshops

AIBS Virtual Advocacy Event	2021
ASAB Virtual Networking Scheme	2021

Certifications

Project Learning Tree Certification.	Spring 2018
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PROFESSIONAL AFFILIATIONS

American Institute of Biological Sciences	2021
The Association for the Study of Animal Behavior	2021
American Ornithological Society	2020
Mississippi Chapter of the Wildlife Society	2017 – 2019

REFERENCES

Dr. Liz Hobson

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Rieveschl Hall, 0006
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Dr. Eric Walters

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Old Dominion University
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