

Murry L. Burgess, AWB®
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Education

Doctor of Philosophy in Fisheries, Wildlife, and Conservation Biology (2019 - 2023)

- North Carolina State University
- Graduate Research Assistant
- GPA: 4.00

Bachelor of Science in Wildlife, Fisheries, and Aquaculture (2015 - 2019)

- Mississippi State University
- GPA: 3.63

Employment History

NCSU Graduate Research Assistant (2019 – 2023) Raleigh, NC

- Research interests in urban ecology, ornithology, wildlife conservation, and animal behavior
- Studies effects of artificial light at night on avian metabolic health and physical development

Instructor for ES400 Analysis of Environmental Issues (2021) Raleigh, NC

- Develops and presents lesson plans for professional development
- Coaches upperclassmen through a professional project and prepares them for their careers

Public Science STEM Externship (2021) Raleigh, NC

- Partners with North Carolina 4-H agents to develop and implement STEM-based programming for children

Environmental Science Teaching Assistant (2020) Raleigh, NC

- Developed ES111 lesson plans designed to introduce freshmen to their field and prepare them for a career
- Compiles resources including internships, community events, jobs, and mentors for freshmen use
- Grades assignments and provides useful feedback
- Adapt in-person material to online learning in midst of Covid-19

U.S. Fish and Wildlife Service (2018-2019) Starkville, MS

- Performed data entry, data verification, and information management using USFWS data structures
- Managed survey data and natural resource conservation and management information for all southeastern national wildlife refuges

Summit Academy Opportunities Industrialization Center (2016, 2017) Minneapolis, MN

- Developed GED “Bootcamp” Tutoring Curriculum
- Assisted with development of school-wide Student Retention Plan, which when implemented increased student retention by 71% in its first year
- Tutored Reading and Language Skills in preparation for the Test of Adult Basic Education and entrance into the Summit GED Program
- Organized essential documentation and managed incoming student records

Publications

Burgess, M., Cooper, C., Swanda, R., and Voss, M. (in Prep). Synthesis of Pathways of Avian Metabolism Under Artificial Light at Night. Trends in Ecology and Evolution.

Burgess, M., Cooper, C., and Voss, M. (in Prep). Photoperiodic trends in songbird clutch size resolve seasonal and geographic patterns of the Yule-Simpson paradox.

Burgess, M., & Evans, K. O. (2019). Sirenia Navigation. J. Vonk & T. Shackelford (Eds). *Encyclopedia of Animal Cognition and Behavior*. DOI: <http://doi.org/10.1007/978-3-319-47829-6>

Presentations and Posters

Burgess, M. (2021, Nov). *Navigating SciComm and Social Media as a Young Professional*. The Wildlife Society National Conference. (Virtual)

Burgess, M., Cooper, C., and Voss, M. (2021, Nov). *Metabolic Health and Physical Development of Barn Swallow Chicks under Natural Photoperiod and Artificial Light at Night*. The Wildlife Society National Conference. (Virtual)

Burgess, M. (2021, Aug). *Urban Ecology and Light Pollution*. Ask a Scientist Series with Asheville Museum of Science, Asheville, NC. (Virtual)

Burgess, M. and Pharr, L. (2021, Aug). *Representative Public Science: How Two Black Grad Students are Making Science Accessible to All*. American Ornithological Society. (Virtual)

Burgess, M., Cooper, C., and Voss, M. (2021, Aug). *Metabolic Health and Physical Development of Barn Swallow Chicks under Natural Photoperiod and Artificial Light at Night*. American Ornithological Society, (Virtual)

Burgess, M. and Pharr, L. (2021, Aug). *Mist Netting and Bird Banding Workshop*. Youth Conservation Corps, Raleigh, NC.

Burgess, M., Cooper, C., and Voss, M. (2021, June). *Metabolic Health and Physical Development of Barn Swallow Chicks under Natural Photoperiod and Artificial Light at Night*. Artificial Light at Night Conference. (Virtual)

Burgess, M. (2021, Apr). *Birds, Climate Change, and Light Pollution*. Rutgers University, NJ. (Virtual)

Burgess, M. (2021, Mar). *Artificial Light at Night*. Guest Lecture North Carolina State University, Raleigh, NC. (Virtual)

Burgess, M. (2020, Aug). *What is a Wildlife Biologist?* New Neighbors Partnership, New York, NY. (Virtual)

Burgess, M., Perkins, D., and Pharr, L. (2020, July). *Mist Netting and Bird Banding Workshop*. Youth Conservation Corps, Raleigh, NC.

Burgess, M. (2020, Febr). *A Light in the Dark: How Light Pollution Affects Avian Health*. Lake Johnson Environmental Lecture Series, Raleigh, NC.

Media

Burgess, M. (2023). *Sparrow Learns Reptiles*. Christy Ottaviano Books – Little, Brown Publishers.

Burgess, M. (2022). *Sparrow Learns Birds*. Christy Ottaviano Books – Little, Brown Publishers.

Alexander, M. & Brister, M. (Hosts). (2021, April 8). *Urban Ecology, Field Safety, and More with Murry Burgess* (No. 5) [Audio podcast episode]. In *Culture and Conservation*. Anchor. <https://anchor.fm/culture-and-conservation/episodes/Urban-Ecology--Field-Safety--and-More-with-Murry-Burgess-euf491>

Burgess, M. (2020, September). *Does your Child's Outdoor Time Promote Connection to Nature?* Outdoor Play Canada. <https://www.outdoorplaycanada.ca>

Burgess, M. (2017). *Why Wolves Howl*. Kindle Direct Publishers.

Certifications and Permits

Sub-permitted Bird Bander (2020, 2021) | Permit Number: 23822-G

Institutional Animal Care and Use Committee (2020, 2021) | Permit Number: 19-763

Associate Wildlife Biologist® (2019)

Scholarships, Awards, and Recognitions

Conservation Leadership Grant (2021) | North Carolina Wildlife Federation Award for outstanding academic merit and engagement in forwarding conservation research, inclusiveness, and action

Joseph E. and Robin C. Hightower Award (2021) | Graduate Student Award in Fisheries and Wildlife Sciences

American Ornithological Society Wetmore Research Award (2021)

E.O. Wilson Conservation Award (2021) | Animal Behavior Society Student Research Grant with recognition for contributions to justice, equity, diversity, & inclusion

National Science Foundation Honorable Mention (2021)

Ford Foundation Honorable Mention (2021)

FERFFEGE Master's Student Award (2020) | awarded to College of Natural Resources master's students who exhibit exceptional scholarship and service

Mississippi Wildlife Federation Conservation Achievement Award (2019)

College of Forest Resources Student Ambassador Recognition (2017, 2018, 2019)

MSU Academic Excellence Scholarship (2015 – 2019) | annually awarded to full time students with at least a 3.0 GPA

Professional Affiliations

Wilson Ornithological Society (2020 – present)

American Ornithological Society (2020 – present)

The Wildlife Society (2018 – present)

- Earned Associate Wildlife Biologist® Certification (Oct. 2019)

- Featured in Sept/Oct 2020 issue of professional publication, *The Wildlife Professional*
- Featured in *Wildlife Vocalizations* (2021)

Artificial Light at Night Conference 2021

- Session Chair and Moderator 2021

Animal Behavior Society (2020 – 2021)

Nature & You: NCSU Student Chapter of IASNR and the George Wright Society (2019 – 2021)

- Attended monthly meetings for seminars and discussion on environmental topics
- *Secretary 2019 - 2021*
 - Helped organize speakers, meeting activities, outdoor volunteer events, and fundraisers
 - Emailed and communicated with club members
 - Kept minutes and schedule for monthly officer meetings
- *Social Media Chair 2019 - 2021*
 - Managed Instagram account & engaged with followers | @natureandyou_ncsu

The Wildlife Society MSU Student Chapter (2017 - 2019)

- Attended bi-monthly meetings for professional development and skills workshops
- *Treasurer 2018-19*
 - Collected club dues, balanced monthly club account balances, and managed yearly funds and expenses
 - Coordinated and participated in fundraisers for yearly Southeastern Student Conclave trip
- Southeastern Student Conclave 2019 at ABAC | *2nd place*
- Southeastern Student Conclave 2018 at LSU
- Quiz Bowl Team (2017 – 2019) | *3rd place 2019*
- Education Outreach Team (2017 – 2019)

MSU College of Forest Resources Ambassador (2016 – 2019)

- Provided information about the CFR and tours of the college during 2 weekly office hours
- Established and maintained contact with potential and admitted CFR students
- Volunteered at least 5 hours each semester towards CFR recruitment events

Mentorship

Brandon Taylor (2021 – present). Undergraduate data analyzer and field technician on graduate research project: metabolic health and physical development of Barn Swallow (*Hirundo rustica*) chicks under natural conditions and artificial light at night.

Lucie Ciccone (2020 – present). Undergraduate data analyzer and field technician on graduate research project: metabolic health and physical development of Barn Swallow (*Hirundo rustica*) chicks under natural conditions and artificial light at night.

Maddie Clayton (2020). Undergraduate data analyzer on graduate research project: metabolic health and physical development of Barn Swallow (*Hirundo rustica*) chicks under natural conditions and artificial light at night.