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Department of Mammalogy, Sam Noble Oklahoma Museum of
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EDUCATION

- 2018-present **Master of Science in Biology**, University of Oklahoma, Norman, OK
Department of Biology and Sam Noble Museum
Advisor: Hayley C. Lanier, Assistant Curator of Mammalogy, Assistant Professor
Working thesis: Fire succession and small mammal community dynamics
- 2013-2017 **Bachelor of Science in Biology**, University of Oklahoma, Norman, OK
Graduated December 2017

PUBLICATIONS & PRESENTATIONS

- Allen, AG**, ZP Roehrs, RS Seville, and HC Lanier. 2019. "Dietary competition during fire succession influences ecological turnover between dominant small mammal species." Central Plains Society of Mammalogists Annual Meeting. Presentation. [Best Graduate Student Presentation Award]
- Beers, RA, **AG Allen**, ZP Roehrs, RS Seville, and HC Lanier. 2019. "Fire succession impacts abundance but not diversity in Yellowstone small mammal communities." Central Plains Society of Mammalogists Annual Meeting. Poster presentation.
- Allen, AG**, ZP Roehrs, RS Seville, and HC Lanier. 2019. "The role of fire succession in dietary competition among small mammal species." Annual Meeting of the American Society of Mammalogists. Poster presentation.
- Beers, RA, **AG Allen**, ZP Roehrs, RS Seville, and HC Lanier. 2019. "Shifting small mammal community diversity due to wildfire succession in the Greater Yellowstone area." Annual Meeting of the American Society of Mammalogists. Poster presentation.
- Allen, AG**, DC Allen, ZP Roehrs, RS Seville, and HC Lanier. 2018. "Is postfire succession correlated with ecological shifts in the North American deer mouse (*Peromyscus maniculatus*)?" Central Plains Society of Mammalogists Annual Meeting. Poster presentation. [Best Graduate Student Poster Award]
- Beers, RA, **AG Allen**, ZP Roehrs, RS Seville, and HC Lanier. 2018. "Fire succession as a driver of small mammal community dynamics in the Greater Yellowstone Ecosystem." Central Plains Society of Mammalogists Annual Meeting. Poster presentation. [Best Undergraduate Student Poster Award]
- Allen, AG**, DC Allen, ZP Roehrs, RS Seville, and HC Lanier. 2018. "Investigating shifts in skull morphology and dietary preferences in North American deermice associated with wildfire." Annual Meeting of the American Society of Mammalogists. Poster presentation.
- Allen, AG**, BS Coyner, JK Braun, and MA Mares. 2017. "Status of the Texas Kangaroo Rat (*Dipodomys elator*) in Oklahoma." Presentation, Oklahoma Academy of Science Annual Technical Meeting.
- Coyner, BS, **AG Allen**, CD Siler, and JK Braun. 2017. "Conversion of the Oklahoma Collection of Genomic Resources from ultra-cold to liquid nitrogen storage." Poster presentation, Oklahoma Academy of Science Annual Technical Meeting.
- Allen, AG**, BS Coyner, CD Siler, and JK Braun. 2017. "Conversion of the Oklahoma Collection of Genomic Resources from ultra-cold to liquid nitrogen storage." Poster, Southwestern Association of Naturalists Conference. Poster presentation.

PROFESSIONAL EXPERIENCE

Positions

- 2018-Present **Graduate Teaching Assistant**, Department of Biology, University of Oklahoma
- 2017- 2018 **Collection Assistant**, Department of Mammalogy, Sam Noble Oklahoma Museum of Natural History (SNOMNH), University of Oklahoma
- 2017 **Research Assistant**, Geographical Aquatic Ecology lab, PI Dr. Dan Allen, University of Oklahoma. Stream ecology project; sorting aquatic invertebrates from samples
- 2017 **Field Research Assistant**, Department of Mammalogy, SNOMNH, University of Oklahoma, project funded by the Oklahoma Department of Wildlife Conservation; survey for the Texas Kangaroo Rat *Dipodomys elator* in Oklahoma; utilized Sherman traps for collecting, identified small mammals, recorded data
- 2017 **Collection Technician Assistant**, Dermestid Skeletal Facility (“The Bug Room”), SNOMNH, University of Oklahoma; maintained and operated facility for research-quality skeletal preparations
- 2016-2017 **Collection Assistant**, Oklahoma Collection of Genomic Resources, SNOMNH, University of Oklahoma; assisted with a 2-year grant-funded project to inventory and transfer 37,000 tissues samples to a new liquid nitrogen storage system
- 2015 **Oklahoma Archaeology Survey**, Internship, University of Oklahoma; identified ancient bone specimens and organized accordingly

Teaching

- Guest lecture**, Research in Ecology, University of Oklahoma BIOL 4970 [SU20]
- Evolution, Ecology, & Diversity TA**, University of Oklahoma BIOL 1134 [SP19, F19, SP20, F20]
- Field Mammalogy TA**, University of Oklahoma BIOL 4023/5023 [SU18, SU19, SU20]
- Mammalogy TA**, University of Oklahoma BIOL 4034/5034 [F18]
- Tutoring services**, Norman, OK; Norman high students in science and math [2013-14]

Mentorship

- Robert Beers (2018-present)**: Evaluating small mammal species assemblage during post-fire succession, University of Oklahoma. Coauthored 3 posters presented at the 2019 Mammalogists meeting in D.C. and both the 2018 and 2019 Central Plains Mammalogists Annual Meetings in Stillwater, OK; and Cape Girardeau, MO. Mentee awards: Undergraduate Honoraria (2019 American Society of Mammalogists); Best Undergraduate Student Poster (2018 Central Plains Mammalogists Meeting).
- Sean Lindley (2018-present)**: Improving methods on quantifying morphology shifts in small mammal skulls. Developed a new systematic approach to photographing skulls and jaws that standardized cranial orientation for placement of 2-D anatomical landmarks.
- Field mammalogy student research projects (2018-present)**: Trained undergraduate students in developing and executing research projects at the OU biological field station; ran analyses

Field work

- Collared pika (*Ochotona collaris*) survey in Alaska** to assess gene flow and demography, Department of Mammalogy, SNOMNH, University of Alaska Fairbanks; surveyed pikas using distance sampling, capture-recapture, and genetic sample collection on Paxson Mountain (2019-present)
- Survey of fire effects on the small mammal community** and the role of fire interval on community structure in the Greater Yellowstone Ecosystem, UW-NPS Research Station, Grand

Teton National Park; surveyed small mammals and collected invertebrates and vegetation data on Huckleberry Mountain (2018-present)

Surveys of herpetofauna in Oklahoma, Environmental DNA and Infectious Diseases of Oklahoma Herps, Department of Herpetology, SNOMNH; learned various trapping methods, field identifications, data-collecting skills, environmental DNA sampling, and infectious disease sampling techniques (2017-present)

Survey of the presence of the Texas Kangaroo Rat *Dipodomys elator* in Oklahoma using Sherman live traps, Department of Mammalogy, SNOMNH; surveyed small rodents and learned field identifications, proper trapping and preservation methods, data recording, and collecting (2016-2017)

“Maggot diaries” Forensic Entomology project, University of Oklahoma Spring 2015. Developed group research projects using field experiments with pig carcasses where insects were collected, identified, and examined to determine postmortem intervals.

SKILLS

- Workshops**
- Networking for Success in Mammalogy**, 2019 American Society of Mammalogists (ASM) meeting in D.C. Career goal mentoring for graduate students and PhD Mammalogists.
 - Hackathon**, 2019 ASM meeting in D.C. Improved the interface of the online Mammal Diversity Database (MDD), a taxonomy and biodiversity database hosted by ASM.
 - Wildlife Acoustics**, 2018 ASM meeting in Kansas. Techniques for (bat) bioacoustics monitoring technology in scientific and government agencies.
 - Non-Academic Careers for Mammalogists**, 2018 ASM meeting in Kansas. Careers in agriculture, disease, conservation, and consulting for state, federal, or private entities.
 - Wallace: A New Modular Software for Modeling Species Niches and Distributions**, 2018 ASM meeting in Kansas. Used Wallace to model and predict species distributions.
 - Professional Interview Strategies**, 2018 ASM meeting in Kansas. Successful candidate professional development strategies: invest in broad, specialized, and creative skills.
- Certifications**
- American Heart Association Heartsaver** course certification for First AID, CPR, and AED instructions in a safe, timely, and effective manner (2019)
 - Scientific Collectors Permit**, Oklahoma Department of Wildlife Conservation
 - Alaska IACUC and Scientific Research Collaborator**, Collared Pika Population Ecology
 - Grand Teton National Park Scientific Research and Collecting Permit**, National Park Service
 - National Park Service IACUC**, Greater Yellowstone Ecosystem
- Software**
- Microsoft Office, R, Adobe Illustrator/Inkscape, Geometric Morphometrics (PhyloNimbus), Photoshop

GRANTS, HONORS, AND AWARDS

2020	NSF Graduate Research Fellowships Program (GRFP)	Honorable Mention
2020	University of Oklahoma Adams Summer Research Scholarship	\$3,400; awarded but declined
2020	American Society of Mammalogists Graduate Honoraria, Anna M. Jackson Award	\$2000
2019	Central Plains Society of Mammalogists Annual Meeting	Best Presentation, \$50
2019	University of Oklahoma College of Arts and Sciences Travel Assistance Program	\$750

2019	American Society of Mammalogists Grant-in-Aid of Research Award	\$1,500
2019	American Society of Mammalogists Travel Award to Annual Meeting in D.C.	\$500
2019	University of Oklahoma Graduate Student Senate Funding – Research Grant	\$375
2019	University of Oklahoma Adams Summer Research Scholarship	\$3,400
2019	University of Oklahoma Robberson Research Grant	\$500
2018	University of Oklahoma Graduate Student Senate Funding – Travel Grant	\$638
2018	Central Plains Society of Mammalogists Annual Meeting	Best Poster, \$100
2017	University of Oklahoma President’s Honor Roll	
2013-2017	University of Oklahoma Valedictorian Scholarship	\$10,000
2013-2017	University of Oklahoma Scholar Program	
2016	University of Oklahoma Joy Brown Catron Scholarship	\$350
2016-2017	University of Oklahoma Robberson & Croak Scholarship	\$3,648
2015	Benjamin A. Gilman International Scholarship – Study Abroad Program, Arezzo, Italy	\$5,000
2015	Presidential International Travel Fellowship – Study Abroad Program, Arezzo, Italy	\$1,500
2015	Stuart Family Foundation Scholarship – Study Abroad Program, Arezzo, Italy	\$2,500
2013-2015	University of Oklahoma President’s Honor Roll	
2013-2014	Mike and Leslie Dicus Scholarship	\$476
2013-2014	OU Club of Ada Scholarship	\$500
2013	University of Oklahoma Dean’s Honor Roll	

OUTREACH

2019-present	University of Oklahoma Biology Graduate Student Association, Undergraduate Studies Representative
2019	Super Saturday: Meet a Scientist, SNOMNH, University of Oklahoma; public science education
2016-present	Mammalogy Collections Volunteer Assistant, SNOMNH, University of Oklahoma; specimen prep; organizing, cataloging, and inventory of collection specimens; public outreach events
2017-present	Herpetology Field Research Volunteer Assistant, SNOMNH, University of Oklahoma
2018	BioBlitz, Greenleaf State Park; Oklahoma's annual 24 hour rapid inventory of biodiversity
2017	BioBlitz, Black Mesa State Park and Nature Preserve; Oklahoma's annual 24 hour rapid inventory of biodiversity
2017	Spooktacular, Sam Noble Museum of Natural History; educating museum visitors about natural history specimens
2017	Science in Action & Object ID Day, Sam Noble Museum of Natural History; education and activities with museum visitors concerning collection objects and visitor's own natural history objects for professional identification

PROFESSIONAL SOCIETY MEMBERSHIPS

2016-present	American Society of Mammalogists
2018-present	Central Plains Society of Mammalogists