A. Rachel Ritchie

Curriculum Vitae

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Education

2017 M.S. Zoology

Oklahoma State University Stillwater, Oklahoma 74074 Advisor: Karen McBee

Thesis Title: Acoustic and Netting Surveys of Western Ozark Highlands Bats with Habitat Suitability Models of Three Threatened and Endangered Species

2015 B.S. General Biology

Concentration: Organismal Biology

Abilene Christian University

Abilene, Texas 79699

Interests

Instruction, mentoring, Chiropteran ecology and natural history, mammalogy, animal behavior, wildlife ecology, and wildlife conservation.

Honors and Awards

2017	The Honor Society of Phi Kappa Phi Acceptance, Oklahoma State University
2017	Student Mentee: Burtrum, Taylor: Outstanding Project, 8 th grade Environmental Sciences. Oklahoma Regional Science Fair, University of Central Oklahoma. Edmond, Oklahoma.
2015	Graduate Teaching Assistantship, Oklahoma State University
2015	Rollin H. Baker Award for Best Undergraduate Presentation, Texas Society of Mammalogists
2015	Outstanding Oral Presentation in STEM, Undergraduate Research Festival, Abilene Christian University
2014	Meals on Wheels Plus, Inc. Volunteer of the Month, Abilene, Texas
2014	Biology Researcher of the Year, Abilene Christian University
2012	ACU in Leipzig Study Abroad Acceptance, Abilene Christian University
2011	Phi Eta Sigma National Freshman Honor Society Acceptance, Abilene Christian University

2011 St. Paul UMC Bass Foundation Scholarship, Abilene Christian University

2010 Houston Livestock Show Scholarship, Abilene Christian University

2010 Rev. Dr. Karen Laymen Gift of Hope Scholarship, Abilene Christian University

Teaching Experience

2016-2017 Graduate Teaching Assistant, Mammalogy Laboratory (ZOOL 4174), Oklahoma State University.

Duties: Independent instruction of 1-2 laboratory sections per week, preparing and delivering weekly lectures, prepare and facilitate lab practicals and quizzes. **Content:** Anatomy, physiology, life history, behavior, and taxonomy of North American Mammals as well as a strong emphasis on the handling and care of museum specimens.

2015- 2016 Graduate Teaching Assistant, Introductory Biology Laboratory (BIOL 1114), Oklahoma State University

Duties: Independent instruction of two laboratory sections per week, weekly TA meetings, manuscript grading, provide feedback to students.

Content: Experimental design, hypothesis formation, and manuscript writing. BIOL 1114 students who produce quality manuscripts are published in the Journal of Introductory Biology Investigations. My students have been published 11 times.

Teaching Assistant, Marine Biology (BIOL 403), Abilene Christian University **Duties:** Assist preparation and facilitation of weekly laboratory section. Attend field trip to Roatan, Honduras to assist with research projects and student field experience.

Content: Anatomy and taxonomy of marine organisms.

Teaching Assistant, Cornerstone (CORE 110), Abilene Christian University **Duties:** Assisted professor with lecture and grading as requested, mentor and befriend freshman students, provide support and advice about college success. **Content:** Introduction to a Liberal Arts degree, college success skills, how to conduct literary research, how to write an annotated bibliography.

2012 Peer Mentor and Academic Coach, Learning Strategies (UNIV 011), Abilene Christian University

Duties: Academic coaching and support for freshman students admitted on probation.

Content: Time management, studying, note taking, and other skills required for college success.

Refereed Publications

Lee, T., **Ritchie**, **A.R.**, Vaca-Puente, S., Brokaw, J.M., Camacho, A., Burneo, S.F. Small Mammals of Guandera Biological Reserve, Carchi Province, Ecuador and Comparative Andean Small Mammal Ecology. *Museum of Texas Tech University Occasional Papers*. **334**:1-17.

Oral Presentations

- **Ritchie,** Lovett, Koch, McBee. Preliminary Results of an Acoustic Bat Survey, Camp Gruber Training Center, Braggs, Oklahoma. American Society of Mammalogists. University of Idaho. Moscow, Idaho.
- **Ritchie,** Lovett, Koch, McBee. Preliminary Results of an Acoustic Bat Survey, Camp Gruber Training Center, Braggs, Oklahoma. Southwestern Association of Naturalists, Cameron University. Lawton, Oklahoma.
- **Ritchie,** Lovett, Koch, McBee. Preliminary Results of an Acoustic Bat Survey, Camp Gruber Training Center, Braggs, Oklahoma. Oklahoma State University Zoology Graduate Student Society Lunchtime Seminar. Stillwater, Oklahoma.
- 2015 Lee, Ritchie, Vaca. Small Mammals of Guandera Biological Reserve, Carchi Province, Ecuador And Comparative Andean Small Mammal Ecology. American Society of Mammalogists. Jacksonville, Florida.
- 2015 Lee, Ritchie, Vaca. Small Mammals of Guandera Biological Reserve, Carchi Province, Ecuador And Comparative Andean Small Mammal Ecology. Texas Society of Mammalogists. Junction, Texas.
- 2015 Lee, Ritchie, Vaca. Small Mammals of Guandera Biological Reserve, Carchi Province, Ecuador And Comparative Andean Small Mammal Ecology. Abilene Christian University Undergraduate Research Festival. Abilene, Texas.

Poster Presentations

- Gunnars, **Ritchie**, McBee. Model of *Trichechus manatus* Mortality by Age Class and Location. Oklahoma Louis Stokes Alliance for Minority Participation Annual Research Symposium. Stillwater, Oklahoma.
- Gunnars, **Ritchie**, McBee. Model of *Trichechus manatus* Mortality by Age Class and Location. Oklahoma State University Karen L. Smith Undergraduate Research Symposium.
- Gunnars, **Ritchie**, McBee. Model of *Trichechus manatus* Mortality by Age Class and Location. Southwestern Association of Naturalists, Cameron University. Lawton, Oklahoma.

2017 Burtrum, Ritchie, McBee. Post-summer Acoustic Survey of Bats in Central Oklahoma. Oklahoma Regional Science Fair, University of Central Oklahoma. Edmond, Oklahoma.

Ritchie, Moore, Brokaw: Application of cpDNA Sequences to the Biogeographical Study of *Mentzelia thompsonii* (Loasaceae). Southwestern Association of Naturalists, Oklahoma State University. Stillwater, Oklahoma.

Other Employment

2017 Student Manager for Mammals and Birds, Collection of Vertebrates, Department of Integrative Biology, Oklahoma State University.

Duties: Day-to-day upkeep of mammal and bird collections. Specimen preparation, loan preparation, data requests, tours, and other curatorial duties as required.

2008-2015 Instructor: Turning Pointe Academy of Performing Arts. Abilene, Texas.

Duties: Independent instruction of dance and creative movement classes for students aged 2-16.

Veterinary Assistant: Mobile Veterinary Clinic. Abilene, Texas.
 Duties: Assisted Dr. Jim Wilson, DVM in surgeries, routine appointments, general clinic upkeep, and customer care.

2012-2013 Receptionist: Center for International Education, Abilene Christian University. Abilene, Texas.

Duties: Assisted both Study Abroad and international students, provided support to staff where required.

Relevant Coursework

2017	Population Ecology (BIOL 5523), Oklahoma State University
2017	Natural Resources Admin. & Policy (NREM 4043), Oklahoma State University
2016	Ecological Niche Modeling (BIOL 5643), Oklahoma State University
2016	Ornithology (ZOOL 4464), Oklahoma State University
2015	Advanced Herpetology (ZOOL 5020), Oklahoma State University
2014	General Mammalogy (BIOL 380), Abilene Christian University
2014	Plant Systematics (BIOL 481), Abilene Christian University
2013	Marine Biology (BIOL 403), Abilene Christian University
2013	Field Biology Skills (BIOL 370), Abilene Christian University
2013	Ecology (BIOL 362), Abilene Christian University

Professional Outreach and Volunteer Work

2017 Presentation Judge. Undergraduate Research Symposium. Oklahoma State University. Stillwater, Oklahoma.

2017	9 th Grade Presentation Judge. Junior Sciences and Humanities Symposium, Oklahoma State University. Stillwater, Oklahoma.
2016-2017	Mentor to local middle school student for regional science fair project: Post-summer acoustic survey of bats in central Oklahoma.
2015	Frankenstein Friday at Oklahoma Wondertorium: Halloween-themed outreach event teaching young children about science and nature.
2014	President: Service Action Leadership Team, a student community service club, Abilene Christian University
2014	Coordinated "Trick or Feed." 200 volunteers raised 10,000lbs of food for the elderly and disabled clients of Meals on Wheels Plus, Abilene, Texas.
2012-2015	Meals on Wheels Plus Delivery Driver. Abilene, Texas.
2013	Treasurer: Service Action Leadership Team, Abilene Christian University.
2012	Inspirata Children's Math and Science Center. Leipzig, Germany. Translated and wrote English descriptions for exhibits and games.
2011-2012	Hendrick Equine Rehabilitation Opportunities (HERO). Abilene, Texas. Equine therapy for children with mental and physical disabilities.

Professional Affiliations

2017-present	The Honor Society of Phi Kappa Phi
2015-present	Oklahoma State University Zoology Graduate Student Society
2015-present	American Society of Mammalogists
2014-present	Southwestern Association of Naturalists
2015-2016	Texas Society of Mammalogists
2014-2015	Biology Research Club, Abilene Christian University
2011-2015	Phi Eta Sigma Freshman Honor Society