

Preston J. McDonald

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EDUCATION

Master of Science, Biology, Texas Tech University, Lubbock, Texas, Spring 2020

- Thesis title: Status, distribution, morphology and genetics of *Sigmodon fulviventer dalquesti* in the Chihuahuan Desert Ecoregion
- Advisor: Dr. Caleb Phillips

Bachelor of Science, Cell and Molecular Biology, Texas Tech University, Lubbock, Texas
Spring 2015

- *magna cum laude*

Associate of Science, Tarrant County Community College, Hurst, Texas Fall 2012

- *magna cum laude*

RESEARCH EXPERIENCE

Graduate Research Assistant, Department of Biological Sciences, Texas Tech University,
May-August 2019

Project title: Community processes structuring assembly and disassembly of bat gut-microbial communities across a gradient of habitat degradation

Graduate Research Assistant, Department of Biological Sciences, Texas Tech University,
January-December 2018

Project title: Status, distribution, morphology and genetics of *Sigmodon fulviventer dalquesti* in the Chihuahuan Desert Ecoregion

Student Intern, Research and Testing Laboratories, Lubbock, July 2014-July 2015

Duties: NGS using Illumina and Ion Torrent, bioinformatics using Tophat and Phyloseq

Undergraduate Researcher, Department of Biological Sciences, Texas Tech University,
January 2014-May 2015

Project title: Positive selection on secretory and structural components of salivary glands within the ecologically diverse bat family Phyllostomidae

Participant, University of North Texas-Howard Hughes Medical Institute Transitions Summer Workshop, University of North Texas, June-July 2012

Project title: Genome Sequences of Five *Streptomyces* Bacteriophages Forming Cluster BG

TEACHING EXPERIENCE

Graduate Teaching Assistant, Department of Biological Sciences, Texas Tech University

Courses:

ZOOL 2404 Human Anatomy and Physiology II, Spring 2020
BIOL 3305 Organic Evolution, Fall 2019
ZOOL 2404 Human Anatomy and Physiology II, Spring 2019
ZOOL 2404 Human Anatomy and Physiology II, Spring 2016
BIOL 1403 Biology I, Fall 2015

AWARDS/DISTINCTIONS

Olive-Pfluger Scholarship, 2019-2020, \$2000
Texas Tech University Proven Achievers Scholarship, Spring 2013 – Fall 2014, \$13,000

PROFESSIONAL MEMBERSHIPS

American Society of Mammalogists
Texas Society of Mammalogists
Texas Tech University Association of Biologists
American Association for the Advancement of Science

SERVICE

- Texas Tech Annual Biological Sciences Symposium 2019 - Session Moderator - Physiology and Evolutionary Biology
- Scales, Tails, and Trails 2019 - Volunteer Lead - Bats, Rats, and Mice
- Texas Tech University Association of Biologists - Video recording committee

RESEARCH FUNDING

Texas Tech University Association of Biologists Grants-in-Aid - Venom Vagueness: The Occurrence of Venom in Crawford's grey shrew (*Notiosorex crawfordi*) - \$515.00, awarded May 2019

REVIEWER ACTIVITY

Environmental Microbiology, Occasional Papers of the Museum of Texas Tech

PUBLICATIONS

McDonald, P. J. and C. D. Phillips. "*Urosaurus Ornatus* (Ornate Tree Lizard). Interspecific kleptoparasitism." Herpetological Review. (Accepted)