

Curriculum Vitae
Robert W. Burroughs
January 2017

Contact

Robert W. Burroughs
University of Chicago
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Education

- 2014 (expected June 2019) – **Ph.D. Evolutionary Biology** –
University of Chicago, Committee on Evolutionary Biology
Dissertation: Voles, Molars, and Molecules: Integrating Quantitative morphology, genetics, and evo-devo to study evolutionary processes - Kenneth Angielczyk and Zhe-Xi Luo (Supervisors)
- 2010-2013 - **M.S. Geological Sciences** -
The University of Texas at Austin, Jackson School of Geosciences
Thesis: *Fossils, Phylogeny, and Anatomical Regions: Insights Exemplified through Turtles* - Christopher J. Bell (Supervisor)
- 2006–2010 - **B.A. Anthropology** -
The University of Texas at Austin, College of Liberal Arts

Professional Status (Present)

- 2014-Present - PhD Candidate, Committee on Evolutionary Biology, University of Chicago
- 2014-Present - Graduate Student In-Residence, Field Museum of Natural History, Chicago, IL.
- 2015-Present - Research Associate, Non-Vertebrate Paleontology Laboratory, The University of Texas at Austin

Professional Appointments (Past)

- 2014 – **Lecturer**
The University of Texas at Austin, Jackson School of Geosciences
- 2013 – **Teaching Specialist**
The University of Texas at Austin, School of Undergraduate Studies

Peer-Reviewed Publications

Burroughs, R. W. et al. In Prep. Three-Dimensional quantitative variation in extant and fossil populations of the North American Sagebrush Vole (*Lemmiscus curtatus*).

Burroughs, R.W., Kirk, E.C. In Prep. The Fossil Turtles of the Devil's Graveyard Formation of west Texas. *Paleontologica Electronica*.

Burroughs, R. W. In Review. A new fossil box turtle from the Eocene-Oligocene boundary of west Texas: Implications for testudinoid phylogeny. *Paleontologica Electronica*.

Burroughs, R. W. In Review. The impact of anatomical partitions on morphology-based phylogenetic reconstructs, exemplified by turtles (Testudines). *PeerJ*

Angielczyk, K. D., **Burroughs, R. W.**, Feldman, C. F. 2015. Do Turtles Follow Rules? Latitudinal Gradients in Species Richness, Body Size, and Geographic Range Area of the World's Turtles. *Journal of Experimental Zoology Part B* 324(3): 270-294.

Burroughs, R. W., Morris, Z. S., Marsh, A. D. 2014. *Trachemys scripta*, Red-Eared Slider, *Pseudemys texana*, Texas River Cooter, *Chelydra serpentina*, Common Snapping Turtle, Feeding Behavior and Scavenging. *Herpetological Review* 45(2): 321-322.

Burroughs, R. W., Bell, C. J., LaDuc, T. J., and Hendrickson, D. A. 2013. Morphological Variation in the Carapace and Plastron of *Terrapene coahuila* Schmidt and Owens, 1944. D. B. Brinkman, P. A. Holroyd, and J. D. Gardner (editors), "*Morphology and Evolution of Turtles: Origin and Early Diversification.*" Springer, Dordrecht: 535-566.

National Science Foundation Grants (Collaborator)

Ann Molineux (PI), Rowan Martindale (Co-PI), James Sprinkle (Collaborator), **Robert Burroughs** (Collaborator). *Natural History: Critical infrastructure upgrades and expanded digital access to Non-vertebrate Paleontology Collections at the University of Texas at Austin*. NSF proposal number 1458198; Requested amount: \$495,880; Duration 36 months; Start date 7/1/2015; Solicitation NSF14-564 of DBI-Biological Research Collections unit.

Published Abstracts (going back only the most recent two years).

Burroughs, R. 2016. Use of automated three-dimensional morphometrics to detect taphonomic bias: Fossil arvicoline rodent teeth as a case study. *Journal of Vertebrate Paleontology, Programs and Abstracts* 2016: 98.

Burroughs, R. 2016. Voles, Molars, and Molecules: Integrating Quantitative Morphology, Genetics, and Evo-Devo to study evolutionary processes. International Congress of Vertebrate Morphology 11: June 29-July 3, 2016, Washington, D.C.

Burroughs, R., Grossnickle, D., Jass, C., Bell, C. 2015. Enamel patterns and surface morphology of the lower first molars of *Lemmiscus curtatus* (Rodentia: Arvicolinae). Journal of Vertebrate Paleontology, Program and Abstracts 2015: 100.

Honors and Awards

2016 - Burke Museum of Natural History - University of Washington - Vertebrate Paleontology Research Grant - \$1400

2016 - University of Chicago - Biological Sciences Division - Hinds Fund Research Award - \$1205

2014 – Society of Vertebrate Paleontology – Jackson School Student Travel Award - \$700

2012 – Texas Academy of Science Master’s Student Research Award - \$750

2011 – Jackson School of Geoscience Ernest L. Lundelius Fellowship for Research in Vertebrate Paleontology - \$1000

2010 – The University of Texas at Austin Undergraduate Research Fellowship - \$1000

Students Mentored

2015-Present - University of Chicago/Field Museum of Natural History

- Evolutionary Biology undergraduate, **R. Ben Sulser**. Ben is currently working on his own independent research. He is investigating the shape and function of nerve canals in the inner-ears of bats, utilizing comparative anatomy, morphometrics, and CT endocasts. Ben is working with Dr. Zhe-Xi Luo and myself.
- Ohio Wesleyan Zoology Undergraduate, **Francesca Socki**. Francesca is studying elevational gradients and biogeography of extant turtles. She is working with Dr. Kenneth Angielczyk and myself.

2012-2015 – Jackson School of Geosciences (UT Austin)

- Geosciences undergraduate, **Samuel (Sam) Muller**. Sam worked on evaluating the cranial morphology of the extant turtle *Notochelys platynota* by building a digital atlas of the skull using x-ray CT data. Sam graduated from the Jackson School in May of 2015. He is currently employed as a Junior Scientist with Banda Group International (Environmental Consulting).

Professional Service (Selected Entries)

2014-Present – University of Chicago

- Served as official representative of the Multicultural Graduate Community (MGC) registered student organization within the University of Chicago (2015-2016).
- Organizer for the Vertebrate Paleontology Reading Group, with weekly meeting held at the Field Museum.

2012-Present – Society of Vertebrate Paleontology

- Development Committee – Student Member/Representative
- My work with the development committee includes regular interaction with donors to raise funds for a variety of awards funds given by the society
- To date (October 2016) – I have helped raise in collaboration with other development committee members in excess of \$150,000 for the society. Primarily in support the Stephen Cohen Student Research Award.

Journals Served as Reviewer

- Proceedings of the Royal Society of London, Series B (2015)
- PeerJ (2016)