

Peter David Smits

CONTACT INFORMATION	Valley Life Sciences Building, Office 5151 Berkeley, CA 94720	609-933-7042 psmits@berkeley.edu
RESEARCH INTERESTS	Macroevolution, macroecology, paleobiology, Bayesian modeling, extinction, mammals, brachiopods, survival analysis, time-series analysis, longitudinal and cross-sectional data analysis	
EDUCATION	University of Chicago , Chicago, IL Ph.D., Committee on Evolutionary Biology, June 2017 <ul style="list-style-type: none">• Advisors: Michael Foote and Kenneth Angielczyk Monash University , Melbourne, AUS M.S., Biological Sciences, Aug 2012 <ul style="list-style-type: none">• <i>First Class Honours</i>• Advisor: Alistair Evans University of Washington , Seattle, WA B.S., Biology: Ecology and Evolution, June 2010	
PUBLICATIONS	<ol style="list-style-type: none">1. Peter D Smits. How macroecology affects macroevolution: the interplay between extinction intensity and trait-dependent extinction in brachiopods. <i>bioRxiv</i>, doi: https://doi.org/10.1101/523811, 2019.2. Stewart M Edie, Peter D Smits, David Jablonski. Probabilistic models of species discovery and biodiversity comparisons. <i>Proceedings of the National Academy of Sciences</i>, 114(14):3666-3671, 2017.3. Peter D Smits. Expected time-invariant effects of biological traits on mammal species duration. <i>Proceedings of the National Academy of Sciences</i>, 112(42):1301513020, 2015.4. Liliana M Davalos, Paul M Velazco, Omar M Warsi, Peter D Smits, Nancy B Simmons. Integrating Incomplete Fossils by Isolating Conflicting Signal in Saturated and Non-Independent Morphological Characters. <i>Systematic Biology</i>, 63(4):582-600, 2014.5. Christopher W Walmsley, Peter D Smits, Michelle R Quayle, Matthew R McCurry, Heather S Richard, Christopher C Oldfield, Stephen Wroe, Phillip D Clausen, and Colin R McHenry. Why the fong face? The mechanics of mandibular symphysis proportions in crocodiles. <i>PLoS ONE</i>, 8(1):e53873, 2013.6. Peter D Smits, Alistair R Evans. Functional constraints on tooth morphology in carnivorous mammals. <i>BMC Evolutionary Biology</i>, 12(1):146, 2012.7. Gregory P Wilson, Alistair R Evans, Ian J Corfe, Peter D Smits, Mikael Fortelius, and Jukka Jernvall. Adaptive radiation of multituberculate mammals before the extinction of dinosaurs. <i>Nature</i>, 483:457-460, 2012.	
PAPERS IN SUBMISSION	<ol style="list-style-type: none">1. Peter D Smits, Seth Finnegan. How predictable is extinction? Forecasting species survival at million-year timescales.2. Peter D Smits, Kenneth D Angielczyk, James F Parham, Bryan Stuart. Supervised learning approaches to classifying morphological variation: assessing taxonomic hypotheses for the Pacific Pond Turtle (<i>Emys marmorata</i>).	

AWARDS	Student Awards — University of Chicago	
	<ul style="list-style-type: none"> • Hinds Fund Grant 	
	Student Awards — Monash University	
	<ul style="list-style-type: none"> • Vice-Chancellor's Commendation for Master's Thesis Excellence, 2012. <ul style="list-style-type: none"> • The Vice-Chancellor's Commendation is give out to the best thesis submitted that year across all divisions at the university; between 0 and 5 are awarded per year. 	
	Student Awards — University of Washington, Department of Biology	
	<ul style="list-style-type: none"> • Casey Award for Research, 2008. 	
	Travel Awards	
	<ul style="list-style-type: none"> • Summer Travel Award, Committee on Evolutionary Biology, 2013, 2014, 2015, 2016. • Student Travel Stipend, Society for the Study of Evolutionary Biology, 2015. • Faculty of Science Travel Grant, Monash University, 2011. 	
PRESENTATIONS	Professional Meetings (last 5 years)	
	• Geological Society of America Annual Meeting, Indianapolis, IN	November 2018
	• Geological Society of America Annual Meeting, Seattle, WA	Sept 2017
	• Geological Society of America Annual Meeting, Denver, CO	Sept 2016
	• Evolution Meetings, Austin, TX	June 2016
	• Geological Society of America Annual Meeting, Baltimore, MD	Nov 2015
	• Evolution Meetings, Guarujá, Brazil	June 2015
	• Geological Society of America Annual Meeting, Vancouver, BC	Oct 2016
	• Evolution Meetings, Raleigh, NC	June 2014
	• Society for Vertebrate Paleontology, Los Angeles, LA	Oct 2013
	• Evolution Meetings, Snowbird, UT	June 2013
TEACHING EXPERIENCE	Co-Instructor	
	Analytical Paleobiology with Seth Finnegan, Charles Marshall Department of Integrative Biology, Univeristy of California Berkeley	
	Fall 2018	
	Co-instructor	
	BSDG 5000 - Teaching Assistant Training with Alicja Santos Division of Biological Sciences, University of Chicago	
	Falls 2015–16	
	Teaching Assistant	
	BIOS 20151 - Introduction to Quantitative Modeling in Biology Instructor: Dmitry Kondrashov Division of Biological Sciences, University of Chicago	
	Spring 2016	
	Teaching Assistant	
	BIOS 13107 - Environmental Ecology Instructor: Trevor Price Division of Biological Sciences, University of Chicago	
	Winter 2015	
	Teaching Assistant	
	BIO2011 - Research Methods Instructor: Ross Thompson, Patrick Baker School of Biological Sciences, Monash University	
	Spring 2012	
	Peer Teaching Assistant	
	Fall 2009	

SERVICE

Michael Foote
Professor
Department of Geophysical Sciences
University of Chicago
5180
December 2018 – Present

Phone: 773-702-4320
E-mail: mfoote@uchicago.edu

REFERENCES

Kenneth Angielczyk
Associate Curator
Integrative Research Center
Field Museum of Natural History

Phone: 312-665-7639
E-mail: kangeilczyk@fieldmuseum.org

P. David Polly
Professor
Department of Earth and Atmospheric Sciences
Indiana University

Phone: 612-626-9070
E-mail: pdpolly@indiana.edu

Seth Finnegan
Associate Professor
Department of Integrative Biology
University of California Berkeley

Phone: 510-664-9916
E-mail: sethf@berkeley.edu