

Peter David Smits

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| CONTACT INFORMATION | Hinds Laboratory for Physical Sciences, Office 289 Chicago, IL 60637 | 609-933-7042 psmits@uchicago.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">• Thesis Topic:• 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>• Topic:• Advisor: Alistair Evans University of Washington , Seattle, WA B.S., Biology: Ecology and Evolution, June 2010 | |
| PUBLICATIONS | <ol style="list-style-type: none">1. 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, 2016.2. 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, 2015.3. 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, 2014.4. 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, 2013.5. Peter D Smits, Alistair R Evans. Functional constraints on tooth morphology in carnivorous mammals. <i>BMC Evolutionary Biology</i>, 12(1):146, 2012.6. 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 PREPARATION | <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.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>). | |

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| AWARDS | Student Awards — University of Chicago | |
| | <ul style="list-style-type: none"> • Hinds Fund Grant <ul style="list-style-type: none"> • The Hinds Fund Grant's purpose is to help early graduate students fund their initial research in order to develop pilot projects, and obtain preliminary results for their dissertation. | |
| | 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 given 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, 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 |
| TEACHING EXPERIENCE | 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 | |
| | Biol 443 - Evolution of Mammals and their Ancestors Instructor: Gregory Wilson Department of Biology University of Washington | Fall 2009 |

REFERENCES

Michael Foote

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