

EDUCATION

- ASST. PROF. Coe College, 2023 - Current
 ASST. PROF. West Virginia University Institute of Technology, 2017 - 2023
 POSTDOC The University of Michigan, 2015 - 2017
 PH.D. Committee on Evolutionary Biology, The University of Chicago, June 2015
 B.S. Geology *magna cum laude* Appalachian State University, 2010

PUBLICATIONS

ORCID <https://orcid.org/0000-0002-8666-5825>

- 2022 Canale J.I., Apesteguia S, Gallina P.A., **Mitchell J.S.**, Smith N.D., Cullen T.M., Shinya A., Haluza A., Gianechini F.A., and Makovicky P.J. New giant carnivorous dinosaur reveals convergent evolutionary trends in theropod arm reduction. *Current Biology*. <https://doi.org/10.1016/j.cub.2022.05.057>
- 2022 Lopez-Antonanzas R., **Mitchell J.S.**, Simoes T.R., Condamine F.L., Aguilee R., Pelaez-Campomanes P., Renaud S., Rolland J., and Donoghue P.C.J. Integrative Phylogenetics: Tools for Palaeontologists to Explore the Tree of Life. *MDPI Biology*. <https://doi.org/10.3390/biology11081185>
- 2021 Smith N.A., Koeller K., Clarke J., Ksepka D., **Mitchell J.S.**, Nabavizadeh A., Ridgely R., and Witmer L. Convergent Evolution In Dippers (Aves, Cincidae): The Only Wing-propelled Diving Songbirds. *Anatomical Record*. <https://doi.org/10.1002/ar.24820>
- 2020 Smith N.A., Stidham T.A., **Mitchell J.S.** The First Fossil Owl (Aves, Strigiformes) From the Paleogene of Africa. *Diversity* 12(4), 163; <https://doi.org/10.3390/d12040163>.
- 2019 **Mitchell, J.S.**, Etienne, R and Rabosky D.L.. fossilBAMM: A General Multiprocess Diversification Model for Paleontological and Molecular Phylogenetic Data. *Systematic Biology* 68(1); <https://doi.org/10.1093/sysbio/syy035>.
- 2017 Rabosky D.L., **Mitchell J.S.**, and Chang, J. Is BAMM flawed? Theoretical and practical concerns in the analysis of multi-rate diversification models. *Systematic Biology* 66:4 477 - 498.
- 2017 Zelditch M.L., Ye J., **Mitchell J.S.**, and Swiderski D. L. Rare ecomorphological convergence on a complex adaptive landscape: Body size and diet mediate evolution of jaw shape in squirrels (Sciuridae). *Evolution* 71(3); doi:10.1111/evo.13168.
- 2017 Johnson, A.E, **Mitchell, J.S.**, and Brown, M.B. Convergent evolution in social swallows (Aves: Hirundinidae). *Ecology & Evolution* 7(2) 550-560 doi:10.1002/ece3.2641
- 2016 Bernardi, M, Angielczyk, K.D., **Mitchell, J.S.**, and Ruta, M. Phylogenetic stability, tree shape, and character compatibility: A case study using early Tetrapods. *Systematic Biology*, doi: 10.1093/sysbio/syw049
- 2016 **Mitchell, J.S.** and Rabosky, D.L. Bayesian model selection with BAMM: effects of the model prior on the inferred number of diversification shifts. *Methods in Ecology and Evolution* 65(5) 737-758 doi: 10.1111/2041-210X.12626.
- 2015 **Mitchell, J.S.** Extant only comparative methods fail to recover the disparity preserved in the bird fossil record. *Evolution* 69(9) 2414-2424.
- 2015 **Mitchell, J.S.** Preservation is predictable: Quantifying the impact of taphonomic biases on ecological disparity in birds. *Paleobiology* 41(2) 353-367 doi: <http://dx.doi.org/10.1017/pab.2014.23>

2014 **Mitchell, J.S.** and Makovicky, P.J. Low ecological disparity in Early Cretaceous birds. *Proceedings of the Royal Society B*. 281(1787), doi:10.1098/rspb.2014.0608

2012 **Mitchell, J.S.**, Roopnarine, P.D., Angielczyk K.D. Late Cretaceous restructuring of dinosaur-bearing communities facilitated the End-Cretaceous mass extinction. *Proceedings of the National Academy of Sciences* 109(46):18857-61. doi: 10.1073/pnas.1202196109

2012 Heckert, A.B., **Mitchell, J.S.**, Schneider, V., and Olsen, P.E. Diverse new microvertebrate assemblage from the Upper Triassic (Norian) Cummock Formation, Sanford Subbasin, North Carolina, USA. *Journal of Paleontology*, 86(2):368-390, doi: http://dx.doi.org/10.1666/11-098.1

2010 **Mitchell, J.S.**, Heckert A. B., and Sues, H-D. Grooves to tubes: Evolution of the venom delivery system in a Late Triassic "reptile". *Naturwissenschaften* 97:1117-1121.

2010 **Mitchell, J.S.** and A. B. Heckert. The setup, use and efficacy of sodium polytungstate separation methodology with respect to microvertebrate remains. *Journal of Paleontological Techniques*, 7: 1-12

BOOK

REVIEWS

2015 **Mitchell, J.S.**. Issues in Palaeobiology: a Global View. *Quarterly Review of Biology*. 90:424-429

TEACHING EXPERIENCE

	Courses designed & taught	Institution
2018, 2020, 2022	Comparative Vertebrate Anatomy	WVU Tech
2018 - 2022	Evolution	WVU Tech
2017, 2019, & 2021	Vertebrate Embryology	WVU Tech
2018 - 2022	Human Anatomy & Physiology II	WVU Tech
2017 - 2022	Human Anatomy & Physiology I	WVU Tech
2020 & 2021	Geology	WVU Tech
2019 - 2021	Freshmen Seminar	WVU Tech
2022	Paleobiology	WVU Tech
	Teaching assistantships	Institution
WINTER 2015	Environmental Ecology (non-majors)	The University of Chicago
SUMMER 2014	Stones and Bones (high school)	The University of Chicago
SPRING 2013	Scientific Ethics & Integrity (grad.)	The University of Chicago
SPRING 2013	Biodiversity (undergrad.)	The University of Chicago
FALL 2012	Biological Evolution (non-majors)	The University of Chicago
FALL 2009 - SPRING 2010	Introduction to Geology (undergrad.)	Appalachian State University

PROFESSIONAL SERVICE

PRESENT	Faculty Status Committee
2020 - PRESENT	Election Committee
2020 - PRESENT	Legislative Committee
2019 - PRESENT	Biology Club Advisor
2019, 2022	Faculty Evaluation Committee
PEER REVIEW	Paleobiology, Proceedings of the Royal Society B, Palaeontology, Ecology Letters, Current Biology, Naturwissenschaften, Fieldiana and Journal of Geophysical Research - Biogeosciences, Systematic Biology, TREE, Nature Communications, Journal of Biogeography, Biology Letters
WORKSHOPS	Presenter at K-Pg food web workshop at UC Berkeley, supported by the Welles Fund; Organized and ran a graduate student programming workshop series at the University of Chicago
SESSION MODERATOR	Society of Vertebrate Paleontology (2012), Society of Integrative Biology (2013), Evolution (2014)
GRANT REVIEWER	UChicago Dean's Council Travel Grant Review Panel (2012-2015)
COMMITTEES	Dean's Council, Biological Sciences, The University of Chicago (2011-2015)

OUTREACH

2021	<i>The Final Ghouls</i> Podcast interview
2018, 2020	Camp STEM, WVU Tech
2019	Presenter Girl Scouts of America
2014-2015	Advisor to undergraduate intern, Krista Kroeller, Field Museum
2013-2015	Presenter for Geology Badge, Boy Scouts of America, Field Museum
2012-2015	Dozin' with the Dinos, Field Museum Public Outreach Program
2010-2015	Ask-a-paleontologist outreach to Chicago Public Schools Kindergarten classes
2009-2015	Over 20 presentations to middle-high school classrooms in rural North Carolina and Chicago Public Schools
2014	"Wild Wednesday" Presenter, Garfield Park Conservatory, Chicago
2013	Educator Open House, Field Museum
2012	Presentation to undergraduate Geology Club, The University of Chicago
2011	Proof-reader for Chicago Public Schools science materials, Field Museum
2010	Public Lecture hosted by the New Mexico Friends of Paleontology

GRANTS

2012	Doctoral Dissertation Improvement Grant \$14,960 (DEB-1311389)	NSF
2012	Hinds Fund \$500	The University of Chicago
2011	Hinds Fund \$1,520	The University of Chicago
2011	Paleontological Society Student Grant \$850	The Paleontological Society
2010	East Asia and Pacific Summer Institute Grant \$5,700 (OISE-1107676)	NSF

PROFESSIONAL TRAINING

2014	Human Anatomy	Prtizker School of Medicine
2013	K-Pg Food Web Workshop	UC Berkeley
2011	Pedagogy in Evolutionary Biology	The University of Chicago
2010	Analytical Methods in Paleobiology Workshop, Paleobiology Database	Macquarie University

PROFESSIONAL SOCIETIES

Society for the Study of Evolution, Society of Integrative and Comparative Biology, Geological Society of America, Society of Vertebrate Paleontology

SELECT MEDIA COVERAGE

University of Chicago, early birds (link)
University of Chicago, food webs (link)
Nature News, <i>Uatchitodon</i> (link)
National Geographic, <i>Uatchitodon</i> (link)
University of Chicago, <i>Uatchitodon</i> (link)

FIELD WORK

2012, 2013, 2015, 2020, 2021	Utah, Cedar Mountain Fm., Early Cretaceous
2013-2014	Wyoming, Green River Fm., Eocene
2013-2014	Argentina, Huincul Fm., Early Cretaceous
2007, 2008, 2010	Arizona, New Mexico & Colorado, Chinle Fm., Late Triassic
2008	Wyoming, Cloverly Fm., Early Cretaceous
2008	North Carolina, Newark Group, Pekin Fm., Late Triassic