

**TARA M. SMILEY**

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**EDUCATION**

- PhD University of Michigan, Department of Earth and Environmental Sciences, August 2016  
*Thesis: Diversity dynamics and ecology of small mammals in relation to the Neogene tectonic and climate history of western North America*
- BSc University of Washington, Ecology and Evolutionary Biology, with Honors, June 2007
- BSc University of Washington, Earth and Space Sciences, with Honors, June 2007

**APPOINTMENTS & EXPERIENCE**

- 2020-current Assistant Professor, Department of Ecology and Evolution, Stony Brook University
- 2018-2020 Stable Isotope Research Fellow, Environmental Resilience Institute, Indiana University
- 2018-2020 Assistant Research Scientist, Earth and Atmospheric Sciences, Indiana University
- 2016-2018 NSF Postdoctoral Fellow in Biology – Biological Collections, Department of Integrative Biology, Oregon State University
- 2011-2016 NSF Graduate Research Fellow, Museum of Paleontology, University of Michigan
- 2014-2015 Researcher-in-residence, Stable Isotopes Ratio Facility for Environmental Research, University of Utah
- 2010-2013 Graduate Student Instructor, Earth and Environmental Sciences, University of Michigan
- 2008-2010 US Peace Corps Volunteer, Environmental Education, Madagascar and Tanzania

**FELLOWSHIPS, GRANTS, & AWARDS****FELLOWSHIPS**

- 2018-2022 Stable Isotope Ecology Research Fellow, Environmental Resilience Institute, Indiana Univ.
- 2016-2018 Postdoctoral Fellowship in Biology – Biological Collections, National Science Foundation
- 2017 Science Communication Fellowship, Oregon Museum of Science & Industry
- 2015-2016 Rackham Predoctoral Dissertation Fellowship, University of Michigan
- 2012-2015 Graduate Research Fellowship, National Science Foundation
- 2014 Stewart R. Wallace Fellowship, Dept. of Geology, University of Michigan
- 2010-2011 Slawson Fellowship, Dept. of Geology, University of Michigan
- 2005-2007 Mary Gates Research Scholarship, University of Washington
- 2002-2004 Mary Gates Honors Achievement Scholarship, University of Washington

**RESEARCH GRANTS**

- 2017-2022 Research Coordination Network Grant, National Science Foundation \$495,276  
 Division of Environmental Biology (Co-author & Steering Committee member)  
 "Mammal diversification in relation to dynamic landscapes" (PI Catherine Badgley, UM; Co-PI Edward Davis, UO; Co-PI Brett Riddle, UNLV)
- 2017-2020 MacroSystems Biology & Early NEON Science Grant, National Science Foundation (Co-author & Postdoctoral Researcher) \$299,676  
 "Mice-o-scapes: using isotopes to understand the effect of climate and landscape change on small-mammal ecology over the past 100 years"

|           |                                                                                                                                  |                      |
|-----------|----------------------------------------------------------------------------------------------------------------------------------|----------------------|
|           | (PI Jennifer Cotton, CSUN; Co-PI Rebecca Terry, OSU)                                                                             |                      |
| 2016-2018 | Postdoctoral Research Fellowship Biology – Biological Collections, National Science Foundation (PI)                              | \$138,000            |
| 2014-2015 | Inter-university Training for Continental-scale Ecology Research-in-Residency Grant, University of Utah (Advisor: Thure Cerling) | \$6,000              |
| 2014      | Anna Olcott Smith Award for Women Graduate Students, University of Michigan                                                      | \$6,000              |
| 2013      | Society of Vertebrate Paleontology Patterson Memorial Award for Fieldwork                                                        | \$2,000              |
| 2011-2014 | Turner Research Grant (x5), Dept. of Geology, University of Michigan                                                             | <i>total</i> \$7,900 |
| 2011-2015 | Rackham Conference Travel Grant (x5), University of Michigan                                                                     | <i>total</i> \$3,250 |
| 2013      | Rackham Graduate Student Research Grant, University of Michigan                                                                  | \$3,000              |
| 2011      | Rackham Spring/Summer Research Grant, University of Michigan                                                                     | \$6,000              |

#### AWARDS & HONORS

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|------------|-------------------------------------------------------------------------------------|
| 2016       | Case Award for best student paper, University of Michigan Museum of Paleontology    |
| 2016       | Student Travel Award, American Society of Mammalogy                                 |
| 2015       | Student Travel Award, Cleveland Museum of Natural History Paleocology Symposium     |
| 2015       | Best student talk award, Desert Research Symposium                                  |
| 2007       | Seattle Mineral and Lapidary Research Award                                         |
| 2006, 2007 | Undergraduate Service Award, Earth & Space Sciences Dept., University of Washington |

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#### PUBLICATIONS

(\*indicates Undergraduate Advisee)

#### IN PRESS, REVISION, & REVIEW

Bahadori, A, et al. including **TM Smiley** (17 co-authors). *In review*. Lithosphere dynamics drive uplift of the Colorado Plateau and formation of the Grand Canyon. ***Nature Geoscience***.

Houser, M, A Sullivan, **TM Smiley**, R Muthukrishnan, E Grennan Browning, A Fudickar, P Title, J Bertram, & M Whiteman. *In review*. Commentary: What fosters the success of a transdisciplinary environmental research institute? Reflections on the role of organizational and individual factors from an interdisciplinary research cohort. ***Elementa: Science of the Anthropocene***.

Singh, D, A Fudickar, **TM Smiley**, & ED Ketterson. *In review*. Comparative proteomics reveals molecular correlates of population-level variation in reproductive timing in a North American songbird. ***Molecular Ecology***.

#### PUBLISHED

(15) Wanamaker, SM, D Singh, AJ Byrd, **TM Smiley**, & ED Ketterson. 2020. Local adaptations from afar: migratory bird populations diverge in the initiation of reproductive timing while wintering in sympatry. ***Biology Letters***.

(14) Barido-Sottani, J, E Saupe, **TM Smiley**, LC Soul, A Wright, & RC Warnock. 2020. Seven rules for simulations in paleobiology. ***Paleobiology***.

(13) **Smiley, TM**, PO Title & ML Zelditch, & RC Terry. 2020. Multi-dimensional biodiversity hotspots and the future of taxonomic, ecological and phylogenetic diversity: a case study of North American rodents. ***Global Ecology and Biogeography***.

- (12) Becker, DJ, KM Talbott, **TM Smiley**, KL Clark, P Sauer, & ED Ketterson. 2019. Leukocyte profiles vary between sympatric residents and overwintering migrant songbirds and with infection status following fall migration. *Animal Migration* 6: 28-40.
- (11) Blumenthal, S, TE Cerling, **TM Smiley**, C Badgley, & TW Plummer. 2019. Isotopic records of climate seasonality in equid teeth. *Geochimica et Cosmochimica Acta* 260: 329-348.
- (10) **Smiley, TM**. 2018. Detecting diversification processes in relation to preservation and tectonic history from simulated fossil records. *Paleobiology* 44(1): 1-24. (Featured article & Editor's selection for Open Access)
- (9) Badgley, C, **TM Smiley**, & R Cable. 2018. Mountains, climate, and mammals, in *Mountains, Climate, and Biodiversity* (eds. C. Hoorn and A. Antonelli), p. 201-216. John Wiley and Sons Ltd, Chichester.
- (8) **Smiley, TM**, EG Hyland, JM Cotton, & RE Reynolds. 2018. Early evidence of C<sub>4</sub> grasses, precipitation variability, and faunal response during the Miocene Climatic Optimum in the Mojave region. *Palaeogeography, Palaeoclimatology, Palaeoecology* 490: 415-430.
- (7) Badgley, C, **TM Smiley**, RC Terry, et al. (16 co-authors) 2017. Biodiversity and topographic complexity: Modern and geohistorical perspectives. *Trends in Ecology & Evolutionary Biology* 32(3): 211-226.
- (6) **Smiley, TM**, & RC Terry. 2017. Paleoeecology: methods. Invited article for *Encyclopedia of Life Sciences*, John Wiley and Sons Ltd, Chichester.
- (5) **Smiley, TM**. 2016. Changes in small-mammal diversity and ecology in relation to landscape and climate change over the Neogene. *Frontiers of Biogeography* 8(4): e32713.
- (4) **Smiley, TM**, JM Cotton, C Badgley, & TE Cerling. 2015. Small-mammal isotope ecology tracks climate and vegetation gradients across western North America. *Oikos* 125: 1100-1109.
- (3) Badgley, C, **TM Smiley**, & JA Finarelli. 2014. Great Basin mammal diversity in relation to landscape history. *Journal of Mammalogy* 95(6): 1090-1106.
- (2) Prothero, DR, E Draus, EA Nesbitt, **TM Smiley**, & C Burns. 2009. Paleomagnetism and tectonic rotation of the Eocene-Oligocene rocks of the Quimper Peninsula, northeastern Olympic Peninsula, Washington, *Newsletters on Stratigraphy*, 43(2): 127-138.
- (1) **Smiley, T**, C Sidor, A Maga, & O Ide. 2008. The vertebrate fauna of the Upper Permian of Niger. VI. First Evidence of a Gorgonopsid Therapsid. *Journal of Vertebrate Paleontology* 28(2): 543-547.

#### IN PREPARATION

**Smiley, TM**, C Badgley, WE Holt, A Bahadori & ET Rasbury. Tectonic extension influences Neogene mammal diversity in western North America. *In preparation for Nature Geosciences*.

**Smiley, TM**, M Moroz\*, C Badgley & TE Cerling. Ecological response to environmental change: insights from the Miocene small-mammal record. *In preparation for Proceedings of the Royal Society-B*.

**Smiley, TM**, JM Cotton, NR Packard\*, M Jimenez\* & RC Terry. Mice-o-scapes: Using isotopes to understand the effects of climate and landscape change on small-mammal ecology over the past century. *In preparation*.

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#### INVITED TALKS & SEMINARS

- 2019 Diversity responses to landscape change in the Basin and Range Province: tectonics influence macroevolutionary dynamics and faunal structure in Neogene mammals. Department of Evolution, Ecology, and Organismal Biology Seminar, Ohio State University, Columbus, OH
- 2019 Mountains as biodiversity hotspots: perspectives from the modern and fossil records. Committee on Evolutionary Biology Evolutionary-Morphology Seminar, University of Chicago, Chicago, IL
- 2019 Diversity in a changing landscape: linking the Neogene fossil record of North American mammals with tectonics and climate. School of Geological Sciences Colloquium, University of South Florida, Tampa, FL
- 2018 Ecology and evolution of mammals in relation to Neogene tectonic and climate history. Department of Ecology and Evolution Seminar, Stony Brook University, Stony Brook, NY
- 2018 Mountains & mammals: linking landscape and climate change to diversity in the Neogene fossil record. Geological Sciences Department Seminar, California State University Northridge, CA
- 2018 Diversity dynamics of small mammals in relation to the Neogene tectonic and climate history of western North America. Earth Sciences Department Seminar, University of Oregon, Eugene, OR
- 2017 Mountains & mammals: linking landscape and climate change to diversification in Neogene rodents. Integrative Biology Department Seminar, Oregon State University, Corvallis, OR
- 2017 Why is the Great Basin so diverse? A paleontological perspective. Fern & J.L. Crawford Lecture Series, Zion Canyon Field Institute, Springdale, UT
- 2017 Diversity dynamics and ecology of small mammals in relation to the Neogene tectonic and climate history of western North America. Burke Museum, University of Washington, Seattle, WA

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#### CONFERENCE PRESENTATIONS, ABSTRACTS & PAPERS

(\*indicates Undergraduate Advisee)

**Smiley, TM**, C Badgley, A Bahadori, R Feng, WE Holt, KM Loughney, & RC Terry. 2019. Diversity responses to landscape change in the Basin and Range Province: Tectonics influence macroevolutionary dynamics and faunal structure in mammals over the Neogene. *American Geophysical Union*, San Francisco, CA. (invited talk)

**Smiley, TM**, JM Cotton, NR Packard, M Jimenez\*, & RC Terry. 2019. Mice-oscares: Using isotopes to understand the effects of climate and landscape change on small-mammal ecology over the past century. *Ecological Society of America*, Louisville, KY. (talk)

**Smiley, TM**, A Bahadori, WE Holt, T Rasbury, & C Badgley. 2019. Basin and Range tectonics drive diversification dynamics in North American mammals. *North American Paleontological Convention*, Riverside, CA. (talk)

**Smiley, TM**, RC Terry, C Badgley, A Bahadori, WE Holt, & T Rasbury. 2018. Were mountain passes higher in the Middle Miocene? *Society of Vertebrate Paleontology*, Albuquerque, NM. (talk)

- Smiley, TM**, M Moroz\*, C Badgley, & TE Cerling. 2017. Ecological response to environmental change: insights from the Miocene small-mammal record of southern California. *Geological Society of America*, Seattle, WA. (talk)
- Smiley, TM**, C Badgley, RC Terry, EB Davis, B Riddle, B Yanites, J Finarelli & S Hopkins. 2017. Biodiversity and topographic complexity: modern and geohistorical perspectives. *Evolution*, Portland, OR. (talk)
- Smiley, TM**. 2017. Detecting diversification process in relation to tectonic activity from an incomplete fossil record. *International Biogeography Society*, Tucson, AZ. (talk)
- Badgley, C, **TM Smiley**, WE Holt, A Bahadori & ET Rasbury. 2017. Mammal diversification tracks landscape history in the Great Basin of western North America. *International Biogeography Society*, Tucson, AZ. (talk)
- A Bahadori, WE Holt, ET Rasbury, L Liu, L Flesch, C Badgley, **TM Smiley** & R Smith. 2016. Reconstruction of topography and lithosphere dynamics within the Basin and Range of western North America since 36 Ma. *American Geophysical Union*, San Francisco, CA. (talk)
- Smiley, TM**. Mountains and mammals: linking landscape and climate change to diversification in Neogene rodents. *Society of Vertebrate Paleontology*, Salt Lake City, UT. (talk in Romer Prize session)
- Moroz, M\*, **TM Smiley**, & C Badgley. 2016. Ecological response of small-mammal assemblages to environmental change over the Miocene Climatic Optimum in southern California. *Society of Vertebrate Paleontology*, Salt Lake City, UT. (Finalist in the Colbert Student Prize poster session)
- Badgley, C, **TM Smiley**, WE Holt, & ET Rasbury. 2016. Great Basin mammal diversity and tectonic history. *Society of Vertebrate Paleontology*, Salt Lake City, UT. (talk)
- Smiley, TM**, L McQuarter\*, & C Badgley. 2016. Geometric-morphometric analysis of *Dipodomys ordii* dentition: shape change along environmental and climatic gradients. *American Society of Mammalogy*, Minneapolis, MN. (Invited poster for symposium "Morphometric Approaches to Studying Mammalian Evolution and Ecology")
- Moroz, M\*, **TM Smiley**, & C Badgley. 2016. Variation in dental morphology among heteromyid rodents in present-day and fossil communities. *American Society of Mammalogy*, Minneapolis, MN. (poster)
- Smiley, TM**, & C Badgley. 2015. Patterns of Miocene mammalian diversity across spatial scales in the Great Basin of western North America. *Society of Vertebrate Paleontology*, Dallas, TX. (talk)
- Moroz, M\*, **TM Smiley**, & C Badgley. 2015. Variation in dental morphology of modern and fossil heteromyid assemblages. *Society of Vertebrate Paleontology*, Dallas, TX. (poster)
- Smiley, TM**, C Badgley, & TE Cerling. 2015. Dietary ecology of diverse Miocene rodent faunas from the Mojave region based on *in situ* stable isotope analysis. *Cleveland Museum of Natural History Paleoecology Symposium*, Cleveland, OH. (poster)
- Smiley, TM**, EG Hyland, & JM Cotton. 2015. Approaches for reconstructing paleoenvironment in the Cajon Valley and Crowder formations, southern California. *CSU-Fullerton Desert Symposium*, Zzyzx, CA. (Best student talk awarded)
- Badgley, C, **TM Smiley**, & K Loughney. 2015. Miocene mammal diversity of the Mojave region in the context of Great Basin mammal history. *CSU-Fullerton Desert Symposium*, Zzyzx, CA. (talk)

- Smiley, TM**, C Badgley, EG Hyland, JM Cotton, & RE Reynolds. 2014. Coupling environmental change and ecological response: The Miocene of the Mojave Desert, California. *Society of Vertebrate Paleontology*, Berlin, Germany. (talk)
- Smiley, TM**, & C Badgley. 2014. Spatial variation in stable isotope ecology of small mammals in western North America. *Geologic Society of America*, Vancouver, BC. (Invited talk for session "Dynamic landscapes and the diversification of North American Rodents")
- Moroz, M\*, **TM Smiley**, & C Badgley. 2014. Fossil mammals from the ancient Mojave: Tracking faunal and environmental change. *National Conference of Undergraduate Research*, Lexington, KY. (poster)
- Smiley, TM**, C Badgley, & J Finarelli. 2013. Miocene mammal diversity in relation to tectonic and climatic history of the Basin and Range Province. *Society of Vertebrate Paleontology*, Los Angeles, CA. (talk)
- Smiley, TM**, C Badgley, & AK Behrensmeyer. 2012. Stable oxygen and carbon isotopes record seasonal variation in drinking water and diet of modern large herbivores in Amboseli National Park, Kenya. *Society of Vertebrate Paleontology*, Raleigh, NC. (talk)
- Badgley, C, **TM Smiley**, & JA Finarelli. 2012. Great Basin mammalian diversity in the context of landscape evolution. *American Society of Mammalogists*, Reno, NV. (Invited talk)
- Smiley, TM**, C Sidor, J Steyer, & N Tabor. 2007. First Evidence for a therapsid in the Upper Permian Moradi Formation of Niger. *Society of Vertebrate Paleontology*, Austin, TX. (poster)

## TEACHING EXPERIENCE

### FACULTY INSTRUCTOR

- 2020 BEE551: Principles of Evolution, Stony Brook University (co-instructor)  
 2020 BEE690: Seminar on Evolutionary Processes, Stony Brook University

### SEMINARS & MINI-COURSES

- 2020 G637: Seminar in Tectonics and Biogeography, Indiana University (organized and co-led with Dr M Hamburger)  
 2018 Stable Isotope Ecology & R mini-course for undergraduate and early graduate students, Oregon State University (organized and co-led with Dr J Cotton)  
 2017 Z507: The Isotopic Niche, Oregon State University (organized & co-led with Dr RC Terry)

### GUEST LECTURES

- 2017 Paleobiology, Oregon State University (Instructor: Dr RC Terry)  
 2017 Biogeography, Oregon State University (Instructor: Dr RC Terry)

### TEACHING ASSISTANT

- 2010, 2013 Earth 110: Introduction to Global Change, University of Michigan  
 2012 Earth 313: Geobiology, University of Michigan  
 2011, 2012 Earth 116: Introduction to Geologic Sciences Field Course in WY, University of Michigan  
 2007 ESS 101: Introduction to Geologic Sciences Laboratory, University of Washington  
 2007 ESS 213: Evolution of Earth, University of Washington  
 2006 ESS 313: Geobiology, University of Washington

### TEACHER TRAINING

- 2018 Center for Teaching & Learning Workshop Series, Oregon State University  
 2017 Science Communication Workshop Series, Oregon Museum of Science & Industry

- 2015 Preparing Future Faculty Teaching Seminar Series, University of Michigan  
 2010, 2015 Rackham Graduate School Teacher Training Workshops (2015 as instructor)

## MENTORSHIP & OUTREACH

### MENTORSHIP

- 2020-current Primary advisor for PhD graduate students, Stony Brook University: Imogene Welles (E&E pre-candidate), Megan Wyatt (E&E pre-candidate)
- 2019-2020 Graduate Research Assistant and Undergraduate Lab Assistants, Indiana University; Student mentored: Danielle Peltier and Anne Kort (PhD Candidates), Isabel Krahling, Stephanie Evans, Kathryn Evans, Lizzie Hicks (CEW&T Emerging Scholar), Max Scott
- 2017-2018 Undergraduate Lab and Research in Collections Assistant, Oregon State University; Student mentored: Juniper Grimes
- 2010-2016 UROP (Undergraduate Research Opportunities Program) & Undergraduate Lab and Field Assistants, University of Michigan; Students mentored: Matthew Hillyer, Caleb Fogel, Leah Gillett, Gregory Hanafin, Katarzyna Rymar (UROP), Molly Moroz (UROP), Laura McQuarter (UROP), Anna Heyblom
- 2011, 2013 EDQUE<sup>2</sup>ST (Enhancing Diversity, Quality, and Understanding of the Ecological and Evolutionary Sciences for Tomorrow) Program, University of Michigan; Students mentored: Gisela Alvarez, Dacotah Wolf Necklace

### INTERNATIONAL TRAINING & COLLABORATION

- 2011-2012 Amboseli National Park, Kenya; Collaborated with and trained two young Kenyan scientists in field collection methods and supported continued collection of grass and water samples over the following year. Field Assistants/Collaborators: Sakimba Kimiti, Peter Maina

### MUSEUM OUTREACH & VOLUNTEER WORK

- 2018 ERI Fall Research Symposium, Science on Tap Panelist: science communication events
- 2017 Meet a Scientist Day, Oregon Museum of Science and Industry: present hands-on activity for young students and their families on field work, fossil identification, and paleoecology and environmental change through time
- 2011-2015 University of Michigan Natural History Museum: public Museum of Paleontology tours and annual Identification Days
- 2012-2016 FEMMES (Females Excelling More in Math, Engineering and Science) and the National Ocean Science Bowl, University of Michigan

## PROFESSIONAL MEMBERSHIPS & SERVICE

### MEMBERSHIPS

- 2017-current American Society of Naturalists
- 2016-current Paleontological Society
- 2016-current International Biogeography Society
- 2015-current American Society for Mammalogy, Ecological Society of America
- 2014-current Geological Society of America
- 2007-current Society of Vertebrate Paleontology

### SERVICE

- 2019 Associate Editor: *Frontiers of Biogeography*
- 2019 ERI Fellows Evaluation committee

- 2015-2020 Journal Referee: *Science; Paleobiology; Ecology Letters; Journal of Biogeography; Journal of Zoology; Biological Conservation; PlosOne; Holocene; Biogeosciences; Palaeogeography, Palaeoclimatology, Palaeoecology*
- 2015 Session moderator: Society of Vertebrate Paleontology (SVP) Annual Meeting
- 2015 Graduate student organizer: Women of SVP Workshop
- 2005-2007 President & Treasurer, Earth and Environmental Sciences Club, University of Washington
- 2005-2007 Member & Undergraduate Advisor, Biology Tri-Beta Club, University of Washington

### SELECT FIELD EXPERIENCE

- 2012-2019 Mojave Desert & Cajon Pass, CA (Led or co-led annual paleontological field expeditions, trained undergraduate field assistants):  
*Middle Miocene Barstow, Cajon Valley and Crowder formations – stratigraphy, geologic sampling for paleoenvironmental proxies, fossil excavation and screen washing*
- 2015 Meade Basin, KS (Field assistant):  
*Modern small-mammal trapping, Late Miocene sedimentary geology and paleontology*
- 2011 Amboseli National Park, Kenya (Co-led expedition, trained Kenyan field assistants):  
*Modern water and grass sampling, survey of modern bone accumulations*
- 2006 Northern Niger (Field assistant for University of Washington Burke Museum expedition, led by Dr. Christian Sidor)  
*Upper Permian vertebrate fossil, paleobotanical, and geologic records*
- 2006 John Day Fossil Beds National Monument, OR (Field Intern)  
*Fossil surveying, collection, preparation and museum curation*

### INTERNATIONAL VOLUNTEER SERVICE

- 2009-2010 US Peace Corps Volunteer, Environmental Education and Agricultural Sustainability, Endagaw, Tanzania
- 2008-2009 US Peace Corps Volunteer, Environmental Education & Agricultural Sustainability, Katsepy, Madagascar

### ADVISORS

#### POSTDOCTORAL

Dr. Rebecca Terry, Integrative Biology, Oregon State University

#### PHD COMMITTEE

Dr. Catherine Badgley (Advisor/Chair), Ecology & Evolutionary Biology, University of Michigan

Dr. Daniel Fisher, Museum of Paleontology, University of Michigan

Dr. Nathan Niemi, Earth and Environmental Sciences, University of Michigan

Dr. Daniel Rabosky, Ecology & Evolutionary Biology, University of Michigan

Dr. Nathan Sheldon, Earth and Environmental Sciences, University of Michigan

#### UNDERGRADUATE ADVISORS/MENTORS

Dr. Christian Sidor, Burke Museum – Vertebrate Paleontology, University of Washington

Dr. Bruce Nelson, Earth & Space Sciences, University of Washington

Dr. Elizabeth Nesbitt, Burke Museum – Invertebrate Paleontology, University of Washington