CURRICULUM VITAE

John P. Hunter
Department of Evolution, Ecology, and Organismal Biology (EEOB)
The Ohio State University at Newark
Newark, Ohio 43055 USA
Email: hunter.360@osu.edu
https://newark.osu.edu/people/john-hunter
https://eeob.osu.edu/people/hunter.360

The John and Mary Alford Center for Science and Technology
Room 345 (office) and 370 (research lab)
1193 University Drive
Phone: 740-366-9102
FAX: 740-366-5047
Google Scholar Profile

PROFESSIONAL EXPERIENCE

- Associate Professor of EEOB (2011–present)
- Associate Professor of Earth Sciences (2011–present); courtesy appointment
- Visiting Associate Researcher, Earth & Planetary Sciences, UC Santa Cruz (2012–2013); sabbatical
- Assistant Professor of EEOB (2005–2011)
- Assistant Professor of Earth Sciences (2007–2011); courtesy appointment
- Visiting Assistant Professor of EEOB (2004–2005)
- Assistant Professor (1997–2004) and Postdoctoral Fellow/Instructor (1996–1997), New York College of Osteopathic Medicine (NYCOM) of New York Institute of Technology (NYIT)

HIGHER EDUCATION

1997 **Ph.D. (Anatomy)**, State University of New York (SUNY) at Stony Brook
Dissertation Title: Adaptive Radiation of Early Paleocene Ungulates
Committee: David W. Krause (advisor), John G. Fleagle, Frederick E. Grine, and J. David Archibald (external)

1991 **Geological Field Methods**. Albion College, Michigan (summer course).

1989–90 **Postgraduate Study**. Department of Geology, University of Helsinki, Finland. *Structure and function of mammalian teeth*. Sponsoring Scientist: Mikael Fortelius.

1989 **A.B. (Biology and Classics)**, Brown University, Providence, Rhode Island
Honors Thesis Title: Tooth Wear in Juvenile and Adult Hadrosaurs
Readers: Christine M. Janis (advisor) and J. Kelley

RESEARCH GRANTS

2025 **Ohio State Newark Faculty-Initiated Student Assistantship Grant.** Comparison of Student Performance in Anatomy Labs with Different Lab Topic Organizations. PI: John Hunter; CoPIs: Madeline Parker and Paul Andreadis. $1623. October 2025 – September 2026.

2014 **National Science Foundation.** *DISSERTATION RESEARCH: The Evolution of the Hypocone in Microbats (Microchiroptera)*. PI: John Hunter; CoPI: Sarah Gutzwiller. $17,191. June 2014 – May 2017.

2012 **Ohio State Newark Scholarly Activity Grant.** *Mastication and Molar Tooth Function in Fruit Bats* (PI; Sarah Gutzwiller, CoPI) ($660)

2012 **Columbus Zoo & Aquarium / OSU Cooperative Research Grant.** *Evolution of the Hypocone in Chiropterans* (CoPI; Sarah Gutzwiller, PI, and Harry Peachey, CoPI) ($6000)

2011 **Ohio State Newark Faculty-Initiated Student Assistantship Grant.** *Laboratory Recovery of Early Paleocene Mammal Fossils from North Dakota* ($2000)

2010 **Ohio State Newark Faculty-Initiated Student Assistantship Grant.** *Laboratory Recovery of Early Paleocene Mammal Fossils from North Dakota* ($2000)

2009 **Ohio State Newark Faculty-Initiated Student Assistantship Grant.** *Mathematical model of tooth development predicts expression of Carabelli's cusp in humans* ($2000)

2008 **Ohio State Newark Research and Scholarly Activity Award**. *Early Paleocene Mammals of North Dakota: Field and Laboratory Studies* ($4,000)

2006 **National Geographic Society**. *Geography of Biotic Recovery: Paleocene Mammals, Mollusks, and Environments of Southwestern North Dakota* (PI; Joseph H. Hartman, Co-PI, and Dean A. Pearson, local collaborator) ($15,000)

2006 **Ohio State Newark Research and Scholarly Activity Award.** *Page and Reprint Costs for"Garden of Eden" or "Fool's Paradise"? Phylogeny, dispersal, and the southern continent-hypothesis of placental mammal origins* ($396)

2006 **Ohio State Newark Research and Scholarly Activity Award**. *Page and Reprint Costs for Spiny Norman in the Garden of Eden? Dispersal and Early Biogeography of Placentalia* ($500)

2005 **Ohio State Newark Research and Scholarly Activity Award**. *Recovery from Mass Extinction: Early Paleocene Mammals of North Dakota* ($1,862)

2005 **Ohio State Newark New Faculty Start-Up Grant.** Purchases included Hirox digital microscope, Wild stereozoom microscope, and other equipment and supplies ($40,000)

2001 **National Geographic Society**. *Latest Cretaceous diversity of theropod dinosaurs and mammals of North Dakota* (CoPI; Julia Sankey, PI) ($11,000)

1997 **NYCOM of NYIT New Faculty Start-Up Grant.** Purchases included Olympus stereozoom microscope, antivibration table, and other equipment and supplies ($20,000)

1996 **National Science Foundation**. *DISSERTATION RESEARCH: Trophic Diversity of Early Paleocene Ungulates* (CoPI; David W. Krause, PI), Integrative Biology and Neuroscience: Ecological and Evolutionary Physiology ($7,725)

1996 **Geological Society of America**. *Mammalian paleontology of the Hell Creek Formation in central North Dakota* ($1,172; awarded but declined due to scheduling conflicts)

1995 **Geological Society of America**. *Mammals across the Cretaceous–Tertiary (K/T) boundary: fieldwork in eastern Montana and western North Dakota* ($1,000)

1990 **Sigma Xi Grant-in-Aid of Research**. *Microwear and food flow patterns of mammalian herbivores* ($800)

FELLOWSHIPS AND AWARDS

2025 **Robert A. Barnes Award for Exemplary Teaching**, annual award to an Ohio State Newark tenured faculty member who has established a record of excellent teaching for at least ten years ($3,000).

2011 **Ohio State Newark Faculty Service Award, Category Tenure-Track**, in recognition of outstanding contributions in the area of service by a member of the faculty ($1,000).

1995–96 **Graduate Fellowship**, The Dinosaur Society. Support for a graduate student in vertebrate paleontology. Duties included assisting in the writing and editing of Dinosaur Society publications *The Dinosaur Report* and *Dino Times* ($14,000).

1995 **Patterson Award**, Society of Vertebrate Paleontology. *Mammals across the Cretaceous–Tertiary boundary in eastern Montana and western North Dakota* ($1,000).

1995 **Travel Award**, SUNY at Stony Brook Chapter of Sigma Xi. *Late Cretaceous, early Paleocene, and middle Paleocene mammals from Dawson County (Williston Basin), Montana* ($300).

1994 **Student Award**, The Paleontological Society. *Studies on trophic diversity of Late Cretaceous and early Paleocene mammals* ($500)

1994 **Patterson Award**, Society of Vertebrate Paleontology (Honorable Mention). *Mammals near the K/T boundary from North Dakota: in search of the giant "possum"*.

1989–90 **Fulbright-Hayes Exchange Grant**, Department of Geology, University of Helsinki, Finland. *Structure and function of mammalian teeth*. Sponsoring Scientist: Mikael Fortelius (~$10,000)

1989 **Visiting Studentship**, Queen's University of Belfast, United Kingdom (awarded but I had to decline the offer in order to accept the Fulbright instead).

PALEONTOLOGICAL FIELD EXPERIENCE

1993–2008 **Director**, 12 SUNY at Stony Brook, NYIT or Ohio State University expeditions to the Williston Basin, Montana and North Dakota, to collect Late Cretaceous and Paleocene mammals.

1992 **Assistant**, USGS/Johns Hopkins University expedition to the Bighorn Basin, Wyoming, to collect Eocene mammals.

1992 **Assistant**, SUNY at Stony Brook expedition to the Williston Basin, Montana and North Dakota, to collect Late Cretaceous and Paleocene mammals.

1988 **Assistant**, SUNY at Stony Brook expedition to the Crazy Mountain Basin, Montana, to collect Paleocene mammals.

PUBLICATIONS

Peer-Reviewed Publications:

In review Munson, C. M., Babcock, L. E., **Hunter, J. P.** Predator-prey dynamics of dire wolves and their prey across the Pleistocene–Holocene transition, Cutler Fossil Site, Florida, USA. *Quaternary Science Reviews* (submitted December 20, 2025).

In review Demers, A., and **Hunter, J. P.** Mandibular shape and dietary ecology in the earliest ungulates. *Journal of Paleontology*. Special Issue for Early Career Researchers (original submitted December 15, 2025; first revision submitted May 21, 2026; second revision submitted September 27, 2026).

In review Schottenstein, N., and **Hunter, J. P.** Climate-linked dental evolution in *Phenacolemur* (Plesiadapiformes) from the Bighorn Basin. *Journal of Paleontology*. Special Issue for Early Career Researchers (original submitted December 7, 2025; first revision submitted June 5, 2026; second revision submitted September 18, 2026).

2026 Blankenship-Sefczek, E. C., Goodman, A. H., Hubbe, M., **Hunter, J. P.**, Sefczek, T. M., and Guatelli-Steinberg, D. Tracing early life stress in human molar morphology: Associations between linear enamel hypoplasia and maxillary first molar form. *PLoS One* 21(7): e0354698. https://doi.org/10.1371/journal.pone.0354698

2026 **Hunter, J. P.**, and Janis, C. M. Tooth wear in juvenile and adult hadrosaurs: implications for parental care in *Maiasaura*. *Palaeogeography, Palaeoclimatology, Palaeoecology* 690 (May 15): 113707. Special Issue: Advancing Dental Microwear Analysis for Dietary Reconstruction: From Dinosaurs to Mammals. https://doi.org/10.1016/j.palaeo.2026.113707

2026 **Hunter, J. P.** A new approach to an old problem: homology of postcanine teeth in therian mammals. *Proceedings of the Royal Society B Biological Sciences* 293: 20252852 https://doi.org/10.1098/rspb.2025.2852

2024 **Hunter, J. P.**, Schottenstein, N., and Jernvall, J. Are talonids more evolvable than trigonids? Evidence from North American Paleogene primates. *Annales Zoologici Fennici* 61: 539-552. https://doi.org/10.5735/086.061.0132

2024 Blankenship-Sefczek, E. C., Goodman, A. H., Hubbe, M., **Hunter, J. P.**, and Guatelli-Steinberg, D. Nutritional supplementation, tooth crown size, and trait expression in individuals from Tezonteopan, Mexico. *PLoS ONE* 19(6): e0305123. https://doi.org/10.1371/journal.pone.0305123

2024 DeMers, A.C., and **Hunter, J.P.** Dental complexity and diet in amniotes: A meta-analysis. *PLoS ONE* 19(2): e0292358. https://doi.org/10.1371/journal.pone.0292358

2023 Žliobaitė, I. et al. (49 authors) The NOW database of fossil mammals. Pp. 33-42 (Chapter 3) In *Evolution of Cenozoic Land Mammal Faunas and Ecosystems: 25 Years of the NOW Database of Fossil* Mammals, Isaac Casanovas-Vilar, Lars W. van den Hoek Ostende, Christine M. Janis, and Juha Saarinen (eds.), Vertebrate Paleobiology and

Paleoanthropology Series, Eric Delson and Eric J. Sargis (eds.), Springer, Cham, Switzerland. https://link.springer.com/chapter/10.1007/978-3-031-17491-9_3.

2020 Schottenstein, N. H., Hubbe, M., **Hunter, J. P.** Modules and mosaics in the evolution of the *Tetonius-Pseudotetonius* dentition. *Journal of Mammalian Evolution* 27: 677–696. https://link.springer.com/article/10.1007/s10914-019-09488-3

2016 **Hunter, J. P.**, and D. Guatelli-Steinberg, New Directions in Dental Development Research. Pp. 487–498 (Chapter 29) In *A Companion to Dental Anthropology*, Irish, J. D., and G. R. Scott (eds), John Wiley and Sons, Inc (early access online 2015).

2015 Gutzwiller, S. C., and **J. P. Hunter**. Evolution and function of the upper molar talon and its dietary implications in microbats. *Journal of Morphology* 276:1368-1376. https://onlinelibrary.wiley.com/doi/full/10.1002/jmor.20424

2014 Rook, D. L., and **J. P. Hunter**. Erratum to: Rooting Around the Eutherian Family Tree: the Origin and Relations of the Taeniodonta. *Journal of Mammalian Evolution* 21: 93. https://link.springer.com/article/10.1007/s10914-013-9241-6

2014 Rook, D. L., and **J. P. Hunter**. Rooting around the eutherian family tree: the origin and relations of the Taeniodonta. *Journal of Mammalian Evolution* 21: 75–91. https://link.springer.com/article/10.1007/s10914-013-9230-9

2013 Guatelli-Steinberg, D., **J. P. Hunter**, R. M. Durner, S. Moormann, T. Weston, T. K. Betsinger. Teeth, morphogenesis, and levels of variation in the human Carabelli trait. Pp. 69–91 (Chapter 4) In *Anthropological Perspectives on Tooth Morphology: Genetics, Evolution, Variation*, Cambridge University Press (ed. G. R. Scott and J. Irish).

2013 Moormann, S., D. Guatelli-Steinberg, and **J. Hunter**. Metamerism, morphogenesis, and the expression of Carabelli and other dental traits in humans. *American Journal of Physical Anthropology* 150: 400–408. https://onlinelibrary.wiley.com/doi/full/10.1002/ajpa.22216

2011 Rook, D. L., and **J. P. Hunter**. Phylogeny of the Taeniodonta: Evidence from Dental Characters and Stratigraphy. *Journal of Vertebrate Paleontology* 31 (2): 422-427.

2010 Rook, D. L., **J. P. Hunter**, D. A. Pearson, and A. Bercovici. Lower jaw of the early Paleocene mammal *Alveugena* and its interpretation as a transitional fossil. *Journal of Paleontology* 84 (6): 1217–1225 (November).

2010 **Hunter, J. P.**, D. Guatelli-Steinberg, T. C. Weston, R. Durner, T. K. Betsinger. Model of Tooth Morphogenesis Predicts Carabelli Cusp Expression, Size, and Symmetry in Humans. *PLoS ONE* 5(7): e11844. https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0011844

2010 **Hunter, J. P.**, R. E. Heinrich, and D. B. Weishampel. Mammals from the St. Mary River Formation (Upper Cretaceous), Montana. *Journal of Vertebrate Paleontology* 30 (3): 885-898.

2006 **Hunter, J. P.**, and C. M. Janis. "Garden of Eden" or "Fool's Paradise"? Phylogeny, dispersal, and the southern continent-hypothesis of placental mammal origins. *Paleobiology* 32 (3): 339–344.

2006 **Hunter, J. P.**, and C. M. Janis. Spiny Norman in the Garden of Eden? Dispersal and Early Biogeography of Placentalia. *Journal of Mammalian Evolution* 13 (2): 89–123.

2005 Evans, A. R., **J. Hunter**, M. Fortelius and G. D. Sanson. The Scaling of Tooth Sharpness in Mammals. *Annales Zoologici Fennici* 42: 603–613.

2004 **Hunter, J. P.**, and J. H. Hartman. Brown Ranch Locality area, "Mid" Paleocene mammals and the tongues of the Cannonball Formation, Slope County, North Dakota. Pages 50–60 in Hartman, J.H., ed., *Vertebrate Paleontology of the High Plains — The late Mesozoic/Cenozoic Record of North Dakota*: Grand Forks, University of North Dakota Department of Geology & Geological Engineering Contribution to Geology 54.

2002 **Hunter, J. P.**, and J. D. Archibald. Mammals from the end of the Age of Dinosaurs in North Dakota and southeastern Montana, with a reappraisal of geographic differentiation among Lancian mammals. *The Hell Creek Formation and the Cretaceous–Tertiary Boundary in the Northern Great Plains — An Integrated Record of the End of the Cretaceous* (eds. Joseph H. Hartman, Kirk R. Johnson, and Douglas J. Nichols), *GSA Special Paper* 361: 191–245.

2002 Pearson, D. A., T. Schaefer, K. R. Johnson, D. J. Nichols, and **J. P. Hunter**. Vertebrate biostratigraphy of the Hell Creek Formation in southwestern North Dakota and northwestern South Dakota. *The Hell Creek Formation and the Cretaceous–Tertiary Boundary in the Northern Great Plains — An Integrated Record of the End of the Cretaceous* (eds. Joseph H. Hartman, Kirk R. Johnson, and Douglas J. Nichols), *GSA Special Paper* 361: 145-167.

2000 Jernvall, J., **J. P. Hunter**, and M. Fortelius. Trends in the evolution of molar crown types in ungulate mammals: evidence from the northern hemisphere. Pp. 269–281 (Chapter 19) In *Development, Function and Evolution of Teeth*, Cambridge University Press (eds. M. F. Teaford, M. M. Smith, and M. W. J. Ferguson).

1999 **Hunter, J. P.** Evolution at all scales in the vertebrate fossil record. *Evolution: Investigating the Evidence* (eds. J. Scotchmoor and D. Springer), *The Paleontological Society Publications* 9 (October): 203–220.

1999 Archibald, J. D.; S. B. Hedges and S. Kumar; T. H. Rich, P. Vickers-Rich, and T. F. Flannery; M. Foote, **J. P. Hunter**, C. M. Janis, and J. J. Sepkoski, Jr. Divergence Times of Eutherian Mammals. *Science* 285 (September 24): 2031a (accessible on the web only: www.sciencemag.org)

1999 **Hunter, J. P.** The radiation of Paleocene mammals with the demise of the dinosaurs: Evidence from southwestern North Dakota. *Proceedings of the North Dakota Academy of Science* 53 (April):141–144.

1999 Foote, M., **J. P. Hunter**, C. M. Janis, J. John Sepkoski, Jr. Evolutionary and preservational constraints on origins of biologic groups: Divergence times of eutherian mammals. *Science* 283 (February 26): 1310–1314 and supplementary data accessible on the web (www.sciencemag.org).

1998 **Hunter, J. P.** Paleoecology meets ecology on questions of scale. *Trends in Ecology and Evolution* 13 (12): 478–479 (December).

1998 **Hunter, J. P.** Key innovations? A reply to Masters and Rayner. *Trends in Ecology and Evolution* 13 (7): 281–282 (July).

1998 **Hunter, J. P.** Key innovations and the ecology of macroevolution. *Trends in Ecology and Evolution* 13 (1): 31–36 (January).

1997 **Hunter, J. P.**, J. H. Hartman, and D. W. Krause. Mammals and mollusks across the Cretaceous–Tertiary boundary from Makoshika State Park and vicinity (Williston Basin), Montana. *A Festschrift in Honor of Marshall Lambert: Paleontology and Geology in the Northern Great Plains* (ed. J. H. Hartman), *Contributions to Geology, University of Wyoming* 32 (1): 61–114.

1996 Jernvall, J., **J. P. Hunter**, and M. Fortelius. Molar tooth diversity, disparity, and ecology in Cenozoic ungulate radiations. *Science* 274 (November 29): 1489–1492.

1996 **Hunter, J. P.**, and D. A. Pearson. First record of Lancian (Late Cretaceous) mammals from the Hell Creek Formation of southwestern North Dakota, USA. *Cretaceous Research* 17 (5): 633–643.

1995 **Hunter, J. P.**, and J. Jernvall. The hypocone as a key innovation in mammalian evolution. *Proceedings of the National Academy of Sciences, USA*, 92 (November 7): 10718–10722.

1994 **Hunter, J. P.** Lack of a high body count at the K–T boundary. *Journal of Paleontology* 68 (5): 1158 (September).

1994 **Hunter, J. P.**, and M. Fortelius. Comparative dental occlusal morphology, facet development, and microwear in two sympatric species of *Listriodon* (Mammalia: Suidae) from the middle Miocene of western Anatolia (Turkey). *Journal of Vertebrate Paleontology* 14 (1): 105–126 (March).

Other Publications:

2016 **Hunter, J. P.** Review of *Events of Increased Biodiversity: Evolutionary Radiations in the Fossil Record*, by Pascal Neige. *Quarterly Review of Biology* 91 (3): 356.

2014 **Hunter, J. P.** Ungar's Whale: A review of *Mammal Teeth: Origin, Evolution, and Diversity*. By Peter S. Ungar. Baltimore: The Johns Hopkins University Press. *Journal of Mammalian Evolution* 21: 125-126. https://link.springer.com/article/10.1007/s10914-013-9245-2

2007 **Hunter, J. P.** Climate and mammalian evolution: A review of *After the Dinosaurs: The Age of Mammals*, by Donald R. Prothero. *Quarterly Review of Biology* 82 (4): 401–405.

2006 **Hunter, J. P.** Review of *Extinction: How Life on Earth Nearly Ended 250 Million Years Ago*, by Douglas H. Erwin. *Quarterly Review of Biology* 81 (4): 385.

2003 **Hunter, J. P.**, and J. H. Hartman. Brown Ranch Locality area, "Mid" Paleocene mammals and the tongues of the Cannonball Formation, Slope County, North Dakota. In Hartman, J.H., ed., Guidebook to the Vertebrate Paleontology of the High Plains — The Late Mesozoic/Cenozoic Record of North Dakota: Premeeting Field Trip, October 12–14, 2003, 63rd Annual Meeting, Society of Vertebrate Paleontology, St. Paul, Minnesota, October 15–18, 2003, 9 pp.

2002 **Hunter, J. P.** Review of *Evolution of Herbivory in Terrestrial Vertebrates: Perspectives from the Fossil Record*, H.-D. Sues (ed.), 2000. *Journal of Vertebrate Paleontology* 22(3): 726-727 (September).

1999 **Hunter, J. P.** Diversity. Pp. 372–379 in *Encyclopedia of Paleontology, Volume 1 A–L*, Fitzroy Dearborn Publishers (ed. Ronald Singer).

1999 **Hunter, J. P.** Teeth: Evolution of complex teeth. Pp. 1209–1218 in *Encyclopedia of Paleontology, Volume 2 M–Z*, Fitzroy Dearborn Publishers (ed. Ronald Singer).

1999 Bell, M. A., and **J. P. Hunter**. Review of *Vertebrate Palaeontology* by Michael J. Benton. *Quarterly Review of Biology* 74(1): 64–65 (March).

1998 **Hunter, J. P.** Vertebrate evolution as paradigm: A commentary on *Patterns and Processes of Vertebrate Evolution* by Robert L. Carroll. *Quarterly Review of Biology* 73 (4): 467–472 (December).

Conference Presentations and Abstracts:

2025 Blankenship-Sefczek, E., **Hunter, J.**, Hubbe, M., Cook, R., and Guatelli-Steinberg, D. Developmental stress, tooth characteristics, and subsistence: Dental changes associated with the transition to agricultural subsistence in the Ohio Valley. Page 17 *in* Program of the 94th Annual Meeting of the American Association of Biological Anthropologists, March 12-15, 2025, Baltimore, Maryland, *American Journal of Biological Anthropology* 186 (S79): 1-186.

2024 **Hunter, J. P.**, Schottenstein, N., and Jernvall, J. Are talonids more evolvable than trigonids? Evidence from North American Paleogene primates. *Dance of the Cave Bear: Honouring the Scientific Legacy of Björn Kurtén*. Symposium in memory of Björn Kurtén on his 100th birthday, November 19, The House of Sciences and Letters, Helsinki, Finland.

2024 Munson, C. M., Babcock, L. E., and **Hunter, J.P.** Predator-prey dynamics of dire wolves and their prey in the context of changing climate, Late Pleistocene-Early Holocene, Cutler Hammock site, Florida, USA. 12th North American Paleontological Convention, June 17-21, 2024, Museum of Paleontology, University of Michigan.

2024 Blankenship-Sefczek, E.C., Goodman, A.H., Hubbe, M., **Hunter, J.P.**, and Guatelli-Steinberg, D. Dietary stress, tooth characteristics and the Patterning Cascade Model. Pages 19-20 *in* Program of the 93rd Annual Meeting of the American Association of Biological Anthropologists, March 20–23, 2024, Los Angeles, California, *American Journal of Biological Anthropology* 183 (S77): 1-210.

2023 **Hunter, J. P.**, Schottenstein, N., and Jernvall, J. Crown types revisited: patterns of phenotypic diversity in the lower dentition of Paleogene Primates and Plesiadapiforms. 83rd Annual Meeting of the Society of Vertebrate Paleontology, Duke Energy Convention Center, Cincinnati, Ohio, USA, October 18–21.

2023 Munson, C., Babcock, L., and **Hunter, J. P.** Hungry like a dire wolf: predator-prey dynamics and changing climate, Cutler Hammock site, Florida, USA. 13th International Mammalogical Congress, a Joint Meeting of the International Federation of

Mammalogists and the American Society of Mammalogists. Dena'ina Civic and Convention Center, Anchorage, Alaska, July 14–20, 2023

2022 Demers, A., and **Hunter, J.**, Meta-analysis of Orientation Patch Count Rotated (OPCR) and Dietary Inference in Terrestrial Amniotes. 82nd Annual Meeting of the Society of Vertebrate Paleontology, The Westin Harbor Castle, Toronta, Ontario, Canada, November 2–5:123.

2022 Blankenship-Sefczek, E., Goodman, A.H., Hubbe, M., **Hunter, J. P.**, and Guatelli-Steinberg, D. An accessory to developmental stress, the relationship between Linear Enamel Hypoplasia (LEH) and molar cusp expression. Page 18 *in* Program of the 91st Annual Meeting of the American Association of Biological Anthropologists, March 23–April 1, 2022, Denver, Colorado, *American Journal of Biological Anthropology* 177 (S73): 1–209.

2021 Demers, A. C., and **Hunter, J. P.**, Inferring archaic ungulate diets using two-dimensional dentary morphology. 81st Annual Meeting of the Society of Vertebrate Paleontology, Virtual Meeting.

2020 Schottenstein, N., **Hunter, J.**, and Hubbe, M. The role of climate change on the dental evolution of Late Paleocene and Early Eocene *Phenacolemur*. 80th Annual Meeting of the Society of Vertebrate Paleontology, Virtual Meeting (replaced in-person meeting in Cincinnati, which was cancelled due to COVID-19).

2020 Schottenstein, N., Hubbe, M., and **Hunter, J.** Morphological rates of evolution in the *Phenacolemur praecox* - *Phenacolemur fortior* and *Phenacolemur praecox* - *Phenacolemur citatus* lineages in the Bighorn Basin, Wyoming. Program of the 89th Annual Meeting of the American Association of Physical Anthropologists, *American Journal of Physical Anthropology* 171(S69): 253.

2020 Blankenship-Sefczek, E., **Hunter, J. P.**, Hubbe, M., Cook, R., and Guatelli-Steinberg, D. Dental reduction, physiological stress, and changing subsistence: Alterations to dental characteristics associated with the transition to agriculture in prehistoric Ohio. Program of the 89th Annual Meeting of the American Association of Physical Anthropologists, *American Journal of Physical Anthropology* 171(S69): 30.

2019 Demers, A. C., and **Hunter, J. P.**, Compatibility of the Patterning Cascade Model of tooth development with periptychid "condylarth" molar diversity. *Program and Abstracts*, 79th Annual Meeting of the Society of Vertebrate Paleontology, Brisbane, Queensland, Australia, October 9-12:88.

2017 **Hunter, J. P.**, Honer, N. H., Krause, D. W., Hartman, J. H., A mid Paleocene mammalian fauna from eastern Montana. *Program and Abstracts*, 77th Annual Meeting of the Society of Vertebrate Paleontology, Calgary, Alberta, Canada, August 23-26:134.

2017 Honer, N. H., Hubbe, M., **Hunter, J. P.** Modules and mosaics in the evolution of the *Tetonius-Pseudotetonius* dentition. *Program and Abstracts*, 77th Annual Meeting of the Society of Vertebrate Paleontology, Calgary, Alberta, Canada, August 23-26:133.

2015 Honer, N. H., **Hunter, J. P.**, and M. Hubbe. Evolutionary rates in individual tooth loci in the *Tetonius* and *Pseudotetonius* lineage of anaptomorphine primates. 2015 GSA Annual Meeting in Baltimore, Maryland, USA (1-4 November 2015)

2015 Gutzwiller, S. G., and **Hunter, J. P.** The functional implications of upper molar talon expansion in microbats. The Society for Integrative and Comparative Biology, Abstract Book, Annual Meeting, January 3–7, West Palm Beach, Florida: 130.

2014 Zhang, Y., and **Hunter, J.** Phylogenetic Analysis of Neoplagiaulacidae (Multituberculata, Mammalia) and Its Implications. Journal of Vertebrate Paleontology 34 (Supplement to 3): 260. 74th Annual Meeting of SVP, Berlin, Germany.

2014 Chester, S., E. Sargis, C. Cohran, **J. Hunter**, T. Lyson. New species of *Mimatuta* ("Condylarthra," Periptychidae) from the earliest Paleocene of Montana. Journal of Vertebrate Paleontology 34 (supplement to 3): 108. 74th Annual Meeting of SVP, Berlin, Germany.

2013 Bercovici, A., **Hunter, J.**, Knauss, G., Wood, J., Pearson, D. Out with the old, in with the new: Vertebrate microstratigraphy documenting the immediate K–Pg mass extinction recovery. Supplement to the Online *Journal of Vertebrate Paleontology*, Volume 33, October 2013, p. 85.

2012 Moormann, S. M., Guatelli-Steinberg, D., and **Hunter, J. P.**, The Patterning Cascade Model and expression of the Carabelli feature in humans: differences between first and second molars and correlation with other dental traits. *American Journal of Physical Anthropology* 147: 217.

2011 **Hunter, J.**, Pearson, D., and Bercovici, A. Earliest evidence for the mammalian recovery fauna in the Paleogene of North Dakota. *Journal of Vertebrate Paleontology* 31 (Supplement to 3): 129A.

2010 Zhang, Y., and **J. P. Hunter**. Interrelationships of Cretaceous and Paleogene Neoplagiaulacidae (Multituberculata, Mammalia). *Journal of Vertebrate Paleontology* 30 (Supplement to 3): 192A.

2010 Wood, D. J., and **J. P. Hunter**. Body mass, diet preference, and niche partitioning in the multituberculates and rodents of North America, Europe, and Asia. *Journal of Vertebrate Paleontology* 30 (Supplement to 3): 190A.

2009 Pearson, D. A., **J. P. Hunter**, A. Bercovici, and G. E. Knauss. Up from the Ashes: Refining the Cretaceous Disappearance and Consequent Rapid Recovery of Faunas and Floras in the Early Paleocene of Southwestern North Dakota.
Abstracts for the Ninth North American Paleontological Covention (NAPC 2009)
University of Cincinnati, June 21–26, 2009: 122–123.

2009 Weston, T.C., D. Guatelli-Steinberg, **J.P. Hunter**, and Betsinger T. K. Tooth development models predict Carabelli cusp variation: interaction effects and epigenetic mechanisms. *Program of the Seventy-Eighth Annual Meeting of the American Association of Physical Anthropologists*: 393 American Journal of Physical Anthropology (Jan 2009): 270-271.

2008 Borths, M., and **Hunter, J.** Gimme shelter?: Locomotor trends and mammalian survivorship at the K-PG boundary. *Journal of Vertebrate Paleontology* 28 (Supplement to 3): 54A-55A.

2005 **Hunter, J.** Six years later and a deep Cretaceous radiation of crown placental mammals is still unlikely. *Journal of Vertebrate Paleontology* 25 (Supplement to 3): 72A.

2005 Hartman, J. H., R. Secord, **J. P. Hunter**, and A. J. Kihm. Revised chronostratigraphic framework for the uppermost Cretaceous and lower Paleogene strata of North Dakota. *Program & Abstracts, North American Paleontological Convention 2005, Halifax, Nova Scotia*, June 19–26. *PaleoBios* 25 (Supplement to 2): 57.

2004 **Hunter, J.** Alternative interpretation of molar morphology and wear in the early Cretaceous mammal *Ausktribosphenos*. *Journal of Vertebrate Paleontology* 24 (Supplement to 3): 73A.

2004 Salazar-Ciudad, I., **J. P. Hunter**, J. Jernvall. Tooth cusp patterning: from genes to evolution. *7th International Congress of Vertebrate Morphology, Florida Atlantic University, Boca Raton, 27 Jul 2004 - 01 Aug 2004*.

2003 Alroy, J., K. Behrensmeyer, M. Carrano, W. Clyde, E. Fara, M. Fortelius, J. Head, **J. Hunter,** M. Uhen, X. Wang. The 5% project: Just how good is the fossil record of tetrapods? *Journal of Vertebrate Paleontology* 23 (Supplement to 3): 29A.

2003 **Hunter, J.**, D. Pearson, J. Hartman. Additions to the Puercan mammals of North Dakota and a framework for study of post-K/T vertebrate recovery. *Journal of Vertebrate Paleontology* 23 (Supplement to 3): 64A.

2002 Pearson, D. A., **J. Hunter**, E. Barrow, A. Bercovici. Stratigraphy and paleoenvironments of the basal Ludlow Formation (Fort Union Group) in southwestern North Dakota. *GSA Abstracts with Programs* 34 (6): 360.

2002 **Hunter, J. P.**, and C. M. Janis. Spiny Norman, Noah's Arks, and the Garden of Eden hypothesis of modern placental mammal origins. *Journal of Vertebrate Paleontology* 22 (Supplement to 3): 69A.

2002 McDermott, B., **J. P. Hunter**, and J. Alroy. Estimating body mass of multituberculate mammals. *Journal of Vertebrate Paleontology* 22 (Supplement to 3): 86A.

2001 **Hunter, J. P.** Spatial patterning among Late Cretaceous (Lancian) mammals in North America. *Program & Abstracts, North American Paleontological Convention 2001, Museum of Paleontology, University of California, Berkeley: Paleontology in the New Millenium*. *PaleoBios* 21 (supplement to 2): 70.

2001 **Hunter, J. P.**, and J. Jernvall. The hypocone revisted: structural trade-offs in the origin of an evolutionary novelty. *Sixth International Congress of Vertebrate Morphology — Jena, Germany*. *Journal of Morphology* 248 (3): 243.

1999 **Hunter, J. P.**, and J. D. Archibald. Mammals from the end of the Age of Dinosaurs in North Dakota and southeastern Montana. *GSA Abstracts with Programs* 31 (7): A73.

1999 **Hunter, J. P.**, and J. Jernvall. Intensity of morphological innovation in the fossil record. *Journal of Vertebrate Paleontology* 19 (Supplement to 3): 53A–54A.

1998 Hartman, J. H., **J. P. Hunter**, and D. W. Krause. The last epeiric sea (Paleocene, Cannonball Formation) in North America — The age of incursions and bounding strata based on mammals, mollusks, and foraminifera. *GSA Abstracts with Programs* 30 (7): A33.

1998 Foote, M, J. J. Sepkoski, Jr., C. M. Janis, and **J. P. Hunter.** Evolutionary and preservational constraints on the timing of clade origins. *GSA Abstracts with Programs* 30 (7): A326.

1998 Heinrich, R. E., **J. P. Hunter**, and D. B. Weishampel. Mammals from the St. Mary River Formation (Upper Cretaceous), Montana: New insights on an "Edmontonian" land mammal age. *Journal of Vertebrate Paleontology* 18 (Supplement to 3): 50A.

1998 **Hunter, J. P.**, and J. Jernvall. Decomposing early morphological diversity in ungulates: analysis of early Paleocene arctocyonid teeth. *Journal of Vertebrate Paleontology* 18 (Supplement to 3): 52A–53A.

1998 **Hunter, J. P.** Dental function, competition, and replacement of Cretaceous marsupials by Paleocene ungulates in North America. *11th International Symposium on Dental Morphology, Oulu, Finland, August 26–30, 1998*: 48.

1997 **Hunter, J. P.** Adaptive radiation of early Paleocene condylarths. *Journal of Vertebrate Paleontology* 17 (Supplement to 3): 54A.

1997 **Hunter, J. P.** 1997. Adaptive radiation of early Paleocene ungulates. *Dissertation Abstracts International* 58 (6): 2930.

1996 Jernvall, J., **J. P. Hunter**, and M. Fortelius. Molar shape diversity in ungulate evolution. *Journal of Vertebrate Paleontology* 16 (Supplement to 3): 44A.

1995 **Hunter, J. P.** Late Cretaceous, early Paleocene, and middle Paleocene mammals from Dawson County (Williston Basin), Montana. *GSA Abstracts with Programs* 27(4): 15.

1995 **Hunter, J. P.** Parallel evolution in the Periptychinae (Condylarthra). *Journal of Vertebrate Paleontology* 15 (Supplement to 3): 36A.

1994 **Hunter, J. P.** , and J. Jernvall. Rise of the hypocone and herbivory in mammalian evolution. *Journal of Vertebrate Paleontology* 14 (Supplement to 3):31A.

1988 **Hunter, J. P.** , and C. M. Janis. Tooth wear in juvenile and adult hadrosaurs: implications for aspects of parental care. *Program with Abstracts: International Symposium on Vertebrate Behavior as Derived from the Fossil Record*, September 8–10, Museum of the Rockies, Bozeman, MT. J.R. Horner, convener.

Popular Articles:

1996 **Hunter, J. P.** The Fossil Preservation Act of 1996: Paleontologists weigh consequences of pending legislation. *The Dinosaur Report*, Winter 1996, pp. 1, 4, and 22.

1996 **Hunter, J. P.** Book Review: *Discovering Dinosaurs in the American Museum of Natural History*. *The Dinosaur Report*, Winter 1996, pp. 9–11.

1996 **Hunter, J. P.** The Dinosaur Society underwrites proceedings from Beijing symposium on Mesozoic ecosystems. *The Dinosaur Report*, Winter 1996, pp. 17–19.

1995 **Hunter, J. P.** Society names new advisory board members. *The Dinosaur Report*, Fall 1995, pp. 5–6.

1995 **Hunter, J. P.** SVP Report: Dinosaurs and birds — innovation and morphological diversity. *The Dinosaur Report*, Fall 1995, pp. 10–11.

1995 **Hunter, J. P.** SVP Report: Coprolites provide evidence for different dinosaur meal plans. *The Dinosaur Report*, Fall 1995, p. 11.

INVITED SEMINARS AND TALKS FOR THE GENERAL PUBLIC

2026 Teeth! Inferences about ecology and evolution in Cenozoic mammals and Mesozoic dinosaurs. School of Earth Sciences, The Ohio State University, March 13.

2025 Teeth! Inferences about ecology and evolution in mammals and dinosaurs. Columbus Rock and Mineral Club, February 18. Columbus Mennonite Church, Columbus, Ohio.

2024 Teeth and Mammalian Evolution. Speaker Series 2024, Royal Tyrrell Museum of Palaeontology, Drumheller, Alberta, Canada, April 18. https://www.youtube.com/watch?v=7KuZHUPD-tg

2023 Teeth and Mammalian Evolution: Evolutionary Pattern and Ecological Diversity. Evolution and Ecology Club, The Ohio State University, November 1.

2023 Teeth and Mammalian Evolution. EEOB Faculty Research Update, The Ohio State University, September 21.

2023 Teeth and Mammalian Evolution: Evolutionary Pattern and Ecological Diversity. NSF-S-STEM, St. Albert Scholars Program, Invited STEMinar. September 7. Ohio Dominican University, Columbus, Ohio.

2017 There and back again: Intercontinental dispersals by paleontologists and other problem mammals. A Retirement Celebration for Christine Janis. May 20. Brown University, Providence, Rhode Island.

2013 The enamel knot in us all. The Enamel Knot at 100 Symposium and Jukka Jernvall's 50th Anniversary [Birthday] Soiree. December 4. The Economicum and the Museum of Natural History, Helsinki, Finland.

2012 Life after Chicxulub: End-Cretaceous extinction and Paleocene recovery of mammals. Department of Earth and Planetary Sciences, University of California Santa Cruz, October 2.

2012 Mammals in the earliest Paleocene. OSUN Geology Club, May 22.

2012 My life amongst the teeth: Integrating studies of function, development and evolution. Department of Anatomy and Neurobiology, North Eastern Ohio Universities College of Medicine, March 22.

2011 Resetting evolution's clock? End-Cretaceous extinction and the origin of modern mammals. Faculty Lecture Series, The Ohio State University Newark, November 10.

2010 Life after Chicxulub: End-Cretaceous extinction and Paleocene recovery of mammals. Department of Zoology, Ohio Wesleyan University, September 30.

2010 Life after Chixculub: Post-Cretaceous recovery of mammals in North Dakota. Department of Evolution, Ecology and Organismal Biology, The Ohio State University, May, 27.

2008 Grandma, what big teeth you have: Studies on the relations of body size, tooth size, and diet in mammals. Earth Systems History brownbag series, School of Earth Sciences, Ohio State University, November 18.

2007 Lessons about Life and Science from the "Edmontonian" and Puercan land mammal ages. Earth Systems History brownbag series, School of Earth Sciences, Ohio State University, October 2.

2006 The Day After: Insights from North Dakota into the Dinosaur Extinction and What Happened Next. Columbus Rock and Mineral Club, March 22. Museum of Biological Diversity, The Ohio State University, Columbus, Ohio.

2006 Dinosaurs, Mammals, and the K/P Transition in North Dakota. *Earth Systems History* brownbag series, Department of Geological Sciences, Ohio State University, March 7.

2005 Origins and Biogeography of Early Placental Mammals. Dept. of Earth Sciences, University of California, Santa Cruz, April 26.

2005 Inquiries into Origins of Modern Placental Mammals. *Earth Systems History* brownbag series, Department of Geological Sciences, Ohio State University, February 22.

2005 Beginning of the Age of Mammals. *Lunch for the Brain* series, organized by Alcira Duenas, Ohio State University at Newark, February 3.

2004 Why We Should Believe What the Fossil Record Is Telling Us. *Theoretical and empirical concerns in estimating clade ages: the placental mammals as a test case*, symposium organized by A. Yoder and Z. Yang, Annual Meeting of the Society of Systematic Biologists, June 27, Fort Collins, Colorado.

2004 Evolution and Biogeography of Early Placental Mammals. Blandy Experimental Farm, University of Virginia, Boyce.

2004 Evolution and Biogeography of Early Placental Mammals. Dept. of Evolution, Ecology, and Organismal Biology, Ohio State University, Columbus.

2003 "Garden of Eden" or "Fool's Paradise"? The K/T Boundary and Early Biogeography of Placental Mammals. Dept. of Ecology and Evolution, Stony Brook University.

2003 Evolutionary, Functional, and Developmental Implications of a Key Innovation in the Mammalian Dentition. Dept. of Anatomy, Howard University.

2001	Paleontological Perspectives on the Origin of Modern Placental Mammals. Dept. of Vertebrate Paleontology, Los Angeles County Museum of Natural History.
2001	Paleontological Perspectives on the Radiation of Modern Placental Mammals. Dept. of Ecology, Evolution, & Natural Resources, Rutgers, The State University of New Jersey.
2000	Diversity, Disparity, and Ecology in the Paleogene Mammalian Radiations. Dept. of Biology, University of Massachusetts at Amherst.
2000	Diversity, Disparity, and Ecology in the Paleogene Mammalian Radiations. Dept. of Biology, California State University, Northridge.
1999	Diversity, Disparity, and Ecology in the Paleogene Mammalian Radiations. Dept. of Geophysical Sciences, University of Chicago, IL.
1999	Paleontological Perspectives on the Origin of Higher Taxa. Biology Dept., Queens College of the City University of New York, NY.
1998	Paleontological Perspectives on the Origin of Major Biological Groups. Dept. of Ecology & Evolutionary Biology, Brown University, Providence, RI.
1998	Studies on Teeth. New York College of Osteopathic Medicine of New York Institute of Technology, Old Westbury, NY.
1995	Mammals in the Age of Dinosaurs. Makoshika State Park, Glendive, MT.
1990	Tooth Microwear in *Listriodon* and Other Mammals. Dept. of Electron Microscopy, University of Helsinki, Finland.

TEACHING

Ohio State:

Semesters:

EEOB 2250	Dynamics of Dinosaurs (Spring)	2021–present	Newark
Anatomy 2300	Human Anatomy (Autumn/Spring)	2013–present	Newark
EEOB 8896	Functional and Evolutionary Morphology	Spring 2020	Columbus
EEOB 8896	The Walking Whales of Indo-Pakistan	May 2015	Columbus

Quarters:

Anatomy 199	Basic Human Anatomy	Winter/Spring 2005–12	Newark
Anatomy 200	Introductory Human Anatomy	Spring 2005–12	Newark
ASC 101H	Your Inner Fish	Spring 2011	Newark
EEOB 881	Major Transitions in Vertebrate Evolution	Spring 2009	Columbus
Biology 102	Human Biology	Winter 2006	Newark
EEOB 470	Vertebrate Biology	Autumn 2005–11	Columbus

Prior Teaching Experience:

Human Gross Anatomy and Embryology

2001–2004	NYCOM of NYIT (Course Director)
1996–2004	NYCOM of NYIT (lab and lecture)
1995	School of Allied Health Professions, SUNY at Stony Brook (guest lecture: Larynx)

1991, 1994 School of Allied Health Professions, SUNY at Stony Brook (lab and lecture)
1993 School of Dentistry, SUNY at Stony Brook (lab and lecture)
1992 School of Medicine, SUNY at Stony Brook (lab and lecture)

Human Histology Lab
1997 NYCOM of NYIT

Vertebrate Evolution
2004 SUNY at Stony Brook (guest lecture: Boreosphenida and Cenozoic mammals)

Comparative Vertebrate Biology
1988, 1989 Division of Biology and Medicine, Brown University (teaching assistant)
2004 New Jersey City University (guest lecture: Vertebrate Body Plan)

GRADUATE STUDENTS

Hannah McCoy, Graduate Program in Earth Sciences (M.Sc. 2027 anticipated completion date)
Thesis Topic: Divergence between Caribbean and Pacific corbulid bivalves after formation of the Panaman Isthmus
Role: Member, Thesis Committee

Connor Hopps, Graduate Program in Earth Sciences (Ph.D. 2027 anticipated completion date)
Dissertation: *Floral community shifts and ecological baselines of sub-fossil pollen from the Bahamas*
Role: Member, Dissertation Committee

Johnny Kube, Graduate Program in Earth Sciences (M.Sc. 2026 anticipated completion date)
Thesis: *New Insight into the Giant Ground Sloth* Megalonyx jeffersonii *(Mammalia, Xenarthra, Pilosa, Megalonychidae) from Restudy of the Millersburg, Ohio, Skeleton*
Role: Member, Thesis Committee

Carmi Thompson, Graduate Program in Earth Sciences (Ph.D. 2027 anticipated completion date)
Dissertation: *Deconstructing the cabinet of curiosities: an interleaving of museum collections, paleoecology, and natural history education*
Role: Member, Dissertation Committee

Chelsea Wright, Ph.D. 2024 in EEOB
Dissertation: *The role of non-vocal signals on social interactions of the Greater (Tympanuchus cupido) and Lesser (T. pallidicinctus) Prairie-Chickens*
Role: Member, Dissertation Committee

Anessa Demers, Ph.D. 2023 in EEOB
Dissertation: *Functional Significance of the Mandible, Tooth Roots, and Tooth Crowns, and their Implications for Fossil Dietary Inference*
Role: Advisor

Cheyenne Munson, M. Sc. 2022 in Earth Sciences
Thesis: *The Dire Wolf in Florida: Dietary Preference, Timing of Disappearance, and Relationship to Changing Climatic Conditions During The Quaternary*
Role: Member, Thesis Examination Committee

Thomas Rohrer, M. Sc. 2022 in Anthropology
Thesis: *Applying the Inhibitory Cascade Model to Molar Series of Two Human Population Samples*

Role: Member, Thesis Examination Committee

Athena Tse, M.Sc. 2020 in EEOB
Thesis: *Quantifying the Link between Craniodental Morphology and Diet in Soricidae using Geometric Morphometrics*
Role: Member, Thesis Examination Committee

Naava Schottenstein (née Honer), Ph.D. 2020 in EEOB
Dissertation: *Patterns and Processes in the Dental Evolution of North American Plesiadapiforms and Euprimates from the Late Paleocene and Early Eocene*
Role: Advisor

Erin Blankenship-Sefczek, Ph.D. 2019 in Anthropology
Dissertation: *Assessing the Effects of Developmental Stress and the Shift to Agriculture on Tooth Crown Size, Cusp Spacing, and Accessory Cusp Expression in Modern Humans through the Patterning Cascade Model of Morphogenesis*
Role: Member, Candidacy Examination Committee and Dissertation Committee

Ariadna Morales, Ph.D. 2018 in EEOB
Dissertation: *The Evolutionary History of* Myotis *Bats in the New World*
Role: Member, Candidacy Examination Committee and Dissertation Committee

Andrew Wendruff, Ph.D. 2016 in Earth Sciences
Dissertation: *Paleobiology and Taphonomy of Exceptionally Preserved Organisms from the Brandon Bridge Formation (Silurian), Wisconsin, USA*
Role: Member, Candidacy Examination Committee and Dissertation Committee

Sarah Gutzwiller, Ph.D. 2015 in EEOB
Dissertation: *Adaptation and Exaptation in the Evolution of the Upper Molar Talon in Microbats (Suborder Microchiroptera)*
Role: Advisor

Yue Zhang, Ph.D. 2015 in EEOB
Dissertation: *Phylogenetics of Neoplagiaulacidae (Multituberculata, Mammalia), and Diet Reconstruction on Cimolodontan Multituberculates*
Role: Advisor

D. Joseph Wood, M.Sc. 2010 in EEOB
Thesis: *The Extinction of the Multituberculates Outside North America: a Global Approach to Testing the Competition Model*
Role: Advisor

Deborah Rook (née Weinstein), M.Sc. 2009 in EEOB
Thesis: *Phylogeny and Relationships of Taeniodonta, an Enigmatic Order of Eutherian Mammals (Paleogene, North America)*
Role: Advisor

UNDERGRADUATE STUDENTS

Senior Theses and Honors Theses:

Erica Scarpitti, B.Sc. 2020 in Earth Sciences
Thesis: Ecological Correlates of the Morphology of the Auditory Bulla in Rodents: Applications to the Fossil Record

Role: Reader

Andrew Sabula, B.Sc. 2015 in Earth Sciences and Zoology
Thesis: *An Archaic Ungulate of Middle Paleocene Age from Southeast Montana*
Role: Advisor

Ryan Durner, B.Sc. 2012 in Anthropological Sciences with minor in pre-dentistry
Thesis: *Understanding Carabelli Expression by Sex and Population Through the Patterning Cascade Model of Tooth Morphogenesis*
Role: Co-advisor (with Debbie Guatelli-Steinberg, Anthropology)

Stephanie Moormann, B.Sc. 2011 in Anthropological Sciences and Molecular Genetics
Thesis: *The Patterning Cascade Model and Expression of the Carabelli Feature in Humans: Differences Between First and Second Molars and Correlation with Other Dental Traits*
Role: Co-advisor (with Debbie Guatelli-Steinberg, Anthropology)

Matthew Borths, B.Sc. 2008 in Earth Sciences with minor in Anthropological Sciences
Thesis: *Digging Past the Dinosaurs? Locomotor Trends and Mammalian Survivorship at the K–Pg (Cretaceous/Paleogene) Boundary*
Role: Advisor
Current Position: Curator of Fossil Primates, Duke University Primate Center

Other Undergraduate Research Students at Ohio State, Graduation Year, and Major:

Nathaniel Burgei (2007 Biology)
Leila Javadi (2008 Biology)
Adam Smalley (2009 Biology)
Jacob Brower (2017 Human Nutrition)
Thomas Gerth (2022 Zoology)
Sara Goddard (2018 Biology)
Amanda Hayes (2009 Plant Pathology)
Rahul Phanindra (2006 Biology)
Zachary Weisberg (2015 Zoology)
Jacob Lawrence (2017 Anthropology)
Aubree Steinmetz (2024 Evolution and Ecology)
Matthew Ruiz (2018 Biology)

SERVICE

Ohio State University, College of Arts and Sciences

2025–2026 Member, General Education Curriculum, Themes Panel II
2024–2025 Chair, General Education Curriculum, Origins and Evolution Theme Advisory Group
2023–2024 Member, General Education Curriculum, Origins and Evolution Theme Advisory Group

Ohio State University, Graduate Faculty Representative

2023 Yuntao Bao, Climate Footprint of Stable Water Isotopes in Tropical South America During the Last Deglaciation. The Ohio State University (Atmospheric Sciences), Graduated: 2023.

2022 Malorie Elizabeth Albee, Skeletal Morphological Adaptation of the Modern Human Ankle and Forefoot: A Study of Biocultural Adaptation, The Ohio State University (Anthropology), Graduated: 2022.

2020 Sepideh Fakhretaha Aval, Ohio State Biochemistry Program, Second Oral Candidacy Examination.

2019 Esther Hye-Min Yoon, Doctoral Program in Foreign, Second and Multilingual Language Education (Department of Teaching and Learning). Second Oral Candidacy Examination.

2018 Theresa Relation. Intratumoral Delivery of Interferon γ-secreting MSCs Repolarizes Tumor-Associated Macrophages and Suppresses Neuroblastoma Proliferation In Vivo. The Ohio State University (Neuroscience), Graduated: 2018.

2017 You Han. Spectrum Expansion to Solve the Spectrum Scarcity Problem in Vehicular Networks. The Ohio State University (Electrical and Computer Engineering), Graduated: 2018.

2016 Mohini Dutt. Developing Models to Study Relationships between Tibial Acceleration Measures and Lower Extremity Musculoskeletal Disorder Symptoms Experienced by Distribution Center Workers. The Ohio State University (Industrial and Systems Engineering), Graduated: 2016.

2014 Michaela Huffman. Biological Variation in South American Populations using Dental Non-Metric Traits: Assessment of Isolation by Time and Distance. The Ohio State University (Anthropology), Graduated: 2014.

Ohio State University, **Department of EEOB:**

2023–2024 Graduate Studies Committee
2021–2022 Advisory Committee
2011–present Committee of Eligible Faculty (formerly Promotion and Tenure Committee)
2010–2011 Graduate Studies Committee
2008–2009 Graduate Admissions Committee
2007–2008 Advisory Committee
2006–2007 Seminar Committee
2006–2007 Museum of Biological Diversity Higher Vertebrates Cataloging Committee
2004–2005 Museum of Biological Diversity Future Directions Committee

Ohio State University at Newark:

2025–2026 Member, Faculty Assembly Building Inclusive Communities Task Force
2024–2025 Member, Faculty Assembly Diversity, Equity, and Inclusion Committee
2024–2026 Member, Faculty Assembly Professional Standards Committee
- Chair, Faculty Assembly Professional Standards Committee (2026)
- Chair, Barnes Award for Exemplary Teaching Subcommittee (2026)
- Member, Scholarly Accomplishment Award Subcommittee (2026)
- Member, Teaching Excellence Award Subcommittee (2025)
- Member, Service Award Subcommittee (2025)
- Member, Faculty-Initiated Student Assistantship Grant subcommittee (2024)
- Member, Scholarly Activity Grant subcommittee (2024)

2022 Academic Affairs Committee, Interim Representative of the Natural Sciences (Autumn Semester only, while Professor Karen Goodell was on Faculty Professional Leave)
2021-2022 Past Chair of the Faculty Assembly
2020-2021 Chair of the Faculty Assembly
2019-2020 Vice-Chair of the Faculty Assembly
2019-2022 Member, Faculty Assembly Executive Committee
2017–2019 Faculty Assembly Professional Standards Committee
- Member, Teaching Excellence Award subcommittee (2018–2019)
- Chair, Faculty-Initiated Student Assistantship Grant subcommittee (2018–2019)
- Chair, Faculty Service Award subcommittee (2017)
- Member, Faculty-Initiated Student Assistantship Grant subcommittee (2017)

2016–2017 Chair, Search Committee for Assistant Professor of Earth Sciences
2014–2016 Cultural Arts and Events Committee
2014–2015 Selection Committee, Testing Center Coordinator
2014–2016 EEOB/Biology Unit Budget Manager and Coordinator

2013–2014 Chair, Search Committee for Assistant Professor of Physics
2011–present Promotion and Tenure Committee
Member, Subcommittee on the 4th-year review of Dr. Christopher Taylor (Spring 2025)
Chair, Subcommittee on the promotion case of Dr. Jill Leonard-Pingel (Autumn 2023)
Chair, Subcomittee on the promotion case of Dr. Mike Stamatikos (Autumn 2020)
Member, Subcommittee on promotion case of Dr. David Ruderman (Autumn 2015)
Member, Subcommittee on promotion case of Dr. Jack Richardson (Autumn 2013)
2010–2012 Faculty Assembly Student Matters Committee
Chair (Winter and Spring Quarters, 2012)
2010–2011 EEOB/Biology Unit Budget Manager and Coordinator
2007–2009 Faculty Assembly Professional Standards Committee
Interim Chair, Faculty Service Award subcommittee (Autumn Quarter 2007)
Interim Chair, Student Assistantship subcommittee (Winter Quarter 2008)
Member, Faculty Service Award subcommittee (2008)
Chair, Scholarly Activity Grant subcommittee (2009)
Member, Faculty-Initiated Student Assistantship Grant subcommittee (2009)
2007–2008 EEOB/Biology Unit Budget Manager and Coordinator
2007–2008 Search Committee, Grant Development Specialist

Society of Vertebrate Paleontology:

2025 Co-Editor of the Annual Meeting Abstract Volume
1999–2001 Associate Editor, *Journal of Vertebrate Paleontology*
1997–1998 Annual Meeting Program Committee

NYIT:

2003–2004 NYCOM Admissions Committee
2002–2003 NYCOM *Ad hoc* Committee on Tutoring, Office of Academic Affairs (Chair)
2000–2004 NYCOM Academic Senate (Elected Senator)
2002–2003 NYCOM Academic Senate Nominations and Elections Committee
2002–2004 NYCOM Academic Senate By-laws Committee (Chair, 2002–2003)
2000–2004 NYCOM Academic Senate Grievance Committee (Chair, 2000–2002)
2003–2004 NYIT Academic Senate (Elected Senator)
2003–2004 NYIT Academic Senate Institutional Development Committee
2003–2004 NYIT Academic Senate Library Systems Committee

Peer Review

Over the course of my career, I have peer-reviewed manuscripts at a rate of 2-3 per year on average, and grant proposals at a rate of 1-2 per year, not counting panel service.

Other Professional Service:

2016–2024 **National Science Foundation** I have served on seven review panels over this time
2024 **Graduate Research Fellowship Program**, panelist
2022 **Graduate Research Fellowship Program**, panelist
2021 **Graduate Research Fellowship Program**, panelist
2020 **Graduate Research Fellowship Program**, panelist
2019 **Graduate Research Fellowship Program**, panelist
2016 **Division of Environmental Biology, Evolutionary Processes, DDIG**, panelist
2016 **Division of Environmental Biology, Systematics and Biodiversity Cluster,** panelist

2000–present **NOW (New and Old Worlds) Database of fossil mammals.** Advisory Board.

2000–present **The Paleobiology Database (PBDB).** Community Member/Contributor/Authorizer

2000–2005 **Vertebrate Paleontology Working Group, The Paleobiology Database (PBDB).** National Center for Ecological Analysis and Synthesis (NCEAS), University of California, Santa Barbara.

2003–2004 **Content Advisor for Blackwell Scientific Publications**. *Q-Review: Clinical Anatomy and Osteopathic Manipulative Medicine*, by R. G. Modi and N. A. Shah (2005).

SOCIETY MEMBERSHIPS

Geological Society of America
The Paleontological Society
Society of Vertebrate Paleontology