

CURRICULUM VITAE

JAMES V. ANDREWS

University of Michigan • Department of Ecology and Evolutionary Biology
2202B Biological Sciences Building • 1105 North University Ave
Ann Arbor, MI 48109
[Email](#) — [Google Scholar](#) — [ORCID](#)

EDUCATION

- 2024 **Ph.D. in Earth and Environmental Sciences**, University of Michigan; Advisor: Matt Friedman.
2015 **B.S. in Biology**, University of North Carolina at Wilmington

PROFESSIONAL POSITIONS

- 2024– **Postdoctoral Fellow**, University of Michigan; Advisor: Hernán López-Fernández
2024 **Postdoctoral Fellow**, University of Michigan; Advisor: Matt Friedman

PUBLICATIONS

- Troyer EM, Rivero-Vega RA, Cui X, Zhu M, Qiao Tuo, Saad HH, Figueroa RT, **Andrews JV**, Clement AM, Lebedev OA, Higgins R, Igielman B, Pierce SE, Giles S, Friedman M. 2025. Macroevolutionary role reversals in the earliest radiation of bony fishes. *Current Biology* 35, 19: 4631–4641. doi.org/10.1016/j.cub.2025.08.008
- Andrews JV**, Shirley EA, Figueroa RT. 2025. Vertebrates of the Blue Ridge Esker (Mississippian, Marshall Sandstone) of Michigan. *Contributions from the Museum of Paleontology, University of Michigan* 36, 3: 43–58. doi.org/10.7302/25119
- Davesne D, **Andrews JV**, Beckett HT, Giles S, Friedman M. 2024. Three-dimensional anatomy of the early Eocene *Whitehippus* (Teleostei, Lampriformes) documents parallel conquests of the pelagic environment by multiple teleost lineages. *Journal of Vertebrate Paleontology* e2284998. doi.org/10.1080/02724634.2023.2284998
- Friedman M, **Andrews JV**, Saad H, El-Sayed S. 2023. The Cretaceous/Paleogene transition in spiny-rayed fishes: surveying “Patterson’s Gap” in the acanthomorph skeletal record. *Geologica Belgica* 26, 1-2: 1–23. doi.org/10.20341/gb.2023.002
- Andrews JV**, Schein JD, Friedman M. 2023. An earliest Paleocene squirrelfish (Teleostei: Beryciformes: Holocentroidea) and its bearing on the timescale of holocentroid evolution. *Journal of Systematic Palaeontology* 21, 1: 2168571. doi.org/10.1080/14772019.2023.2168571
- Kolmann MA, Nagesan RS, **Andrews JV**, Borstein S, Figueroa RT, Singer R, Friedman M, López-Fernández H. 2023. DiceCT for Fishes: Recommendations for pairing iodine contrast agents with μ CT to visualize soft tissues in fishes. *Journal of Fish Biology* 102, 4: 893–903. doi.org/10.1111/jfb.15320
- Figueroa RT, **Andrews JV**. 2022. Fitting fangs in a finite face: A novel fang accommodation strategy in a 280-million-year-old ray-finned fish. *Journal of Anatomy* 242, 3: 525–534. doi.org/10.1111/joa.13798

*Denotes co-first authorship.

PUBLICATIONS IN REVIEW or REVISION

- Andrews JV**, Capobianco A, Zalmout IS, Hilton EJ, Friedman M. In Revision. New information on †*Magnigena arabica* (Teleostei: Osteoglossiformes: Osteoglossidae) based on micro-computed tomography. *Contributions from the Museum of Paleontology, University of Michigan*.

OUTREACH, DIVERSITY, EQUITY, and INCLUSION

- University of Michigan Museum of Paleontology DEI 2.0 contributor**, University of Michigan, 2024: collaborated with University of Michigan Museum of Paleontology personnel to write a multi-year, unit-specific Diversity, Equity, and Inclusion plan with action items, metrics for success, and delineated responsibilities.
- Supporting Tomorrow’s Researchers and Today’s Advocates (STRATA) mentor**, North American Paleontological Congress, 2024: met with multiple early-career graduate student mentees to aid in navigating conference attendance and academic interpersonal relationships.
- Paleontological Society Respectful Inclusive Scientific Events (RISE) liaison**, North American Paleontological Congress, 2024: monitored for non-inclusive and predatory behaviors among conference attendees.
- Science Communication Fellow**, University of Michigan, 2018 – : generation of NSF-framework ‘Portal to the Public’ outreach kit for science communication and public engagement; communicating science to children and adults without science backgrounds.

Service Learning and Trans-disciplinary Education program mentor, University of Michigan, 2018-2020: mentor to a K–12 mentee, working to reduce socioeconomic disparities by creating a meaningful relationship focused on emotional and scholastic support.

PROFESSIONAL DEVELOPMENT and EXPERIENCE

Graduate studies in vertebrate paleontology, University of Michigan, 2018 – : vertebrate anatomy; vertebrate systematics; phylogenetic methods; Phanerozoic stratigraphy; supervision of students; virtual data acquisition and management; research grant writing; specimen photography and illustration.

Museum Assistantship, University of Michigan Museum of Paleontology, 2022: database management; specimen handling and packing; collection management best practices; collections organization; collaboration with museums staff.

AWARDS and GRANTS

- 2023 Fierke Family Endowed Fellowship Award, University of Michigan. \$3,500.
Ermine Cowles Case Student Award, University of Michigan. *Awarded for best student paper in paleontology.*
- 2021 Graduate Student Research Award, Society of Systematic Biologists. \$3,000.
Harry B. Wittington Award, Paleontological Society. \$1,200.
- 2020 Co-PI. NSF Award #2017822. “Snapshots from the ancient Indo-Pacific: remarkable Eocene fish faunas and their Implications for the origin of a modern marine biodiversity hotspot.” Award amount: \$346,910.
- 2019 Rackham Merit Fellowship, University of Michigan. *Funding in support of 4 semesters.*
- 2018 Scott Turner Award, University of Michigan. \$1,495.
Earth and Environmental Sciences graduate program start-up funds, University of Michigan. \$2,000.
Pre-candidacy Departmental Fellowship, University of Michigan. *Funding in support of 1 semester.*
- 2015 Undergraduate Research Scholar Award, University of North Carolina at Wilmington.
- 2014 James Böhlke Memorial Endowment Fund, Academy of Natural Sciences of Philadelphia. *Student travel award.*

INVITED LECTURES and SEMINARS

- 2026 “Progress in generating a FBD topology of cichlids,” presented at Ludwig-Maximilians-Universität München
- 2025 “Diversity of Fishes,” presented for University of Michigan course EEB 487—Ecology of Fishes

CONFERENCE PRESENTATIONS (TALKS)

- Andrews JV**, Capobianco A, Friedman M. Micro-computed tomography reveals the internal anatomy of Paleocene *Magnigena arabica* (Teleostei: Osteoglossomorpha: Osteoglossidae). *North American Paleontological Convention 2024* (Ann Arbor, Michigan 2024).
- Andrews JV**, Friedman M. A fossilized birth-death phylogeny of early Late Cretaceous spiny-rayed fishes (Teleostei: Acanthomorpha). *The 6th International Palaeontological Congress* (Khon Khaen, Thailand 2022).
- Andrews JV**, Friedman M, Schein JD. A new Danian squirrelfish (Acanthomorpha: Holocentridae) reveals extensive survivorship across the Cretaceous-Paleogene boundary. *Society of Vertebrate Paleontology Annual Meeting* (Virtual 2021)
- Andrews JV**, Friedman M. Three-dimensional morphometry of otoliths as a tool for quantifying habitat and locomotor diversity in modern and fossil teleosts. *Society of Vertebrate Paleontology 80th Annual Meeting* (Virtual 2020).
- Andrews JV**, Friedman M, Schein JD. Anatomy and implications of the earliest occurring crown squirrelfish (Teleostei: Holocentridae) from near the Cretaceous-Paleogene boundary. *12th International Conference of Vertebrate Morphology* (Prague, 2019).

CONFERENCE ORGANIZATION

- 2024 North American Paleontological Convention (Ann Arbor, MI 2024)
- 2019 3rd Great Lakes Student Paleoconference (Ann Arbor, MI 2019)

TEACHING, ADVISING, MENTORSHIP, and OUTREACH EXPERIENCE

- 2026 Co-advisor, Honors Thesis undergraduate student in Ecology and Evolutionary Biology, University of Michigan
- 2025 Mentorship of graduate students and research technicians, Museum of Paleontology, University of Michigan
- 2024 Graduate Student Instructor for EARTH 119: *Introduction to Geology* (University of Michigan)
- 2022 Graduate Student Instructor for EARTH 331: *Climate and Climate Change* (University of Michigan)
- 2020 Graduate Student Instructor for EARTH 222: *Introduction to Oceanography* (University of Michigan)

- 2019 Undergraduate Research Opportunities Program (UROP) mentor
Graduate Student Instructor for EARTH 119: *Introduction to Geology* (University of Michigan)
- 2018 Graduate Student Instructor for EARTH 201: *Introduction to Physical Geography* (University of Michigan)
Service Learning and Trans-disciplinary Education (SLATE) program mentor
Science Communication Fellow with the University of Michigan Museum of Natural History

FIELDWORK EXPERIENCE

- 2025 Late Pennsylvanian of the Appalachian Basin prospecting and collecting of plants and vertebrates (Greater Pittsburgh, PA & Ohio)
- 2024 Late Devonian invertebrate and vertebrate fossil prospecting and collecting in the Cleveland Shale (Greater Cleveland, Ohio).
- 2023 Middle Mississippian invertebrate and vertebrate fossil prospecting and collecting in the Marshall Sandstone (Jackson, Michigan).
- 2022 Middle Devonian invertebrate and vertebrate fossil prospecting and collecting in the Traverse Group (Northern Michigan).
- 2019 Devonian invertebrate and vertebrate fossil prospecting and collecting in the Catskill Group (Hyner, PA).
- 2018 Late Cretaceous invertebrate and vertebrate fossil prospecting and collecting in the Niobrara Formation (Western Kansas).

PROFESSIONAL SOCIETY MEMBERSHIPS

Society of Vertebrate Paleontology; The Palaeontological Association; Paleontological Society, American Society of Ichthyologists and Herpetologists; Society of Systematic Biologists

JOURNALS SERVED AS REVIEWER

Proceedings of the Royal Society Biological Sciences
Journal of Vertebrate Paleontology
Journal of Anatomy
Ichthyology & Herpetology
Scientific Reports
Palaeontologia Electronica
Neotropical Ichthyology