

Andrew D. Gentry

Department of Biology
Alabama School of Mathematics and Science
Mobile, AL 36604
Phone: 256-694-1949; Email: Agentry@ASMS.net
Website: drewgentry.com

EDUCATION

2020: *Ph.D.*, Biology, University of Alabama at Birmingham, Birmingham, AL.
2015: *M.S.*, Biology, University of Alabama at Birmingham, Birmingham, AL.
2013: *B.S.*, Biology (Chemistry minor), New Mexico State University, Las Cruces, NM.

INSTITUTIONAL AFFILIATIONS

Primary Position

2022 – Present: *Biology Instructor*, Alabama School of Mathematics and Science, Mobile, AL.

Other Active Positions

2016 – Present: *Research Assistant*, Department of Biology, Jacksonville State University, Jacksonville, AL.
2015 – Present: *Research Associate of Vertebrate Paleontology*, Department of Research and Collections, University of Alabama Museums, Tuscaloosa, AL.
2014 – Present: *Research Associate / Curator of Fossil Turtles*, Department of Collections, McWane Science Center, Birmingham, AL.

Past Positions

2019 – Present: *Staff Scientist / Biologist*, McWane Science Center, Birmingham, AL.
2015 – Present: *Instructor / Graduate Faculty*, Department of Biology, University of Alabama at Birmingham, Birmingham, AL.
2013: *Science Educator*, McWane Science Center, Birmingham, AL
2011: *National Park Service Intern*, White Sands National Park, NM.
2010 – 2012: *Volunteer Research Assistant / Fossil Preparator*, Vertebrate Museum, New Mexico State University, Las Cruces, NM.
1997 – 2004: *Research Assistant* to paleontologist Dr. William Gartska, University of Alabama in Huntsville, Huntsville, AL.

AWARDS & HONORS

2020: *Outstanding Doctoral Student Award*, Department of Biology, University of Alabama at Birmingham

- 2020: Nominated for the *Samuel B. Barker Award for Academic Excellence in Graduate Studies*, University of Alabama at Birmingham
- 2019: Nominated for the *Harold Martin Outstanding Student Award* (PhD), Department of Biology, University of Alabama at Birmingham
- 2018: Nominated for the *Harold Martin Outstanding Student Award* (PhD), Department of Biology, University of Alabama at Birmingham
- 2015: *Graduate Assistantship Award*, Department of Biology, University of Alabama at Birmingham

PUBLICATIONS

9. **Gentry, A.D.**, C.R. Kiernan, J.F. Parham. 2022. A large non-marine turtle from the Upper Cretaceous of Alabama and a review of North American “macrobaenids”. *The Anatomical Record*, in press.
8. **Gentry, A.D.**, J.A. Ebersole. 2021. The first occurrence of the stem turtle *Naomichelys* from the Late Cretaceous of eastern North America. *Historical Biology* 33(9):1-8.
7. Joyce, W.G., J. Anquetin, E.A. Cadena, J. Claude, I.G. Danilov, S.W. Evers, G.S. Ferreira, **A.D. Gentry**, G.L. Georgalis, T.R. Lyson, A. Perez-Garcia, M. Rabi, J. Sterli, N.S. Vitek, J.F. Parham. 2021. A nomenclature for fossil and living turtles using phylogenetically defined clade names. *Swiss Journal of Palaeontology* 140(5):45 pp.
6. **Gentry, A.D.**, J.A. Ebersole, C.R. Kiernan. 2019. *Asmodochelys parhami*, a new fossil marine turtle from the Campanian Demopolis Chalk and the stratigraphic congruence of competing marine turtle phylogenies. *Royal Society Open Science* 6(12):1-13.
5. **Gentry, A.D.** 2018. *Prionochelys matutina* Zangerl, 1953 (Testudines: Pan-Cheloniidae) from the Late Cretaceous of the United States and the evolution of epithecal ossifications in marine turtles. *PeerJ* 6(1):e5876.
4. **Gentry, A.D.**, J.F. Parham, D.J. Ehret, J.A. Ebersole. 2018. A new species of *Peritresius* Leidy, 1856 (Testudines: Pan-Cheloniidae) from the Late Cretaceous (Campanian) of Alabama, USA, and the occurrence of the genus within the Mississippi Embayment of North America. *PLoS ONE* 13(4):e0195651.
3. **Gentry, A.D.**, J.A. Ebersole. 2018. The first report of *Toxochelys latiremis* Cope, 1873 (Testudines: Pan-Cheloniidae) from the Late Cretaceous (Santonian/Campanian) Mississippi Embayment of Alabama, USA. *PaleoBios* 35:1-10.
2. **Gentry, A.D.** 2017. New material of the Late Cretaceous marine turtle *Ctenochelys acris* Zangerl, 1953 and a phylogenetic reassessment of the ‘toxochelyid’-grade taxa. *The Journal of Systematic Palaeontology* 15(8):675-696.
1. **Gentry, A.D.** 2011. Mammalian ichnofauna of White Sands National Monument. *Geoscientists In-the-Parks document* National Park Service. 12 pp.

Conference Abstracts

- Gentry, A.D.**, J.F. Parham. 2020. A new Eucryptodiran turtle (Testudines, Macrobaenidae) from the Campanian of Alabama. *Alabama Academy of Sciences, Program and Abstracts* 2020:15-16.

- Ehret, D.J, **A.D. Gentry**, T.L. Harrell. 2018. An unusual new marine turtle (Testudines, Pan-Chelonioidae) from the Late Cretaceous, Maastrichtian Coon Creek Formation of Tennessee, U.S.A. *Society of Vertebrate Paleontology, Program and Abstracts* 2018:120-121.
- Gentry, A.D.** 2015. A redescription of the Cretaceous marine turtle *Ctenochelys acris* and a systematic revision of the 'toxocheilyd'-grade taxa using cladistic analysis. *Southeastern Association of Vertebrate Paleontology, Program with Abstracts* 2015:7.
- Gentry, A.D.** 2014. New stem chelonioid material from the upper Cretaceous of Alabama and the taxonomic validity of the genus *Ctenochelys*. *Southeastern Association of Vertebrate Paleontology, Program with Abstracts* 2014:9.
- Gentry, A.D.**, C.A. Franco, D.R. Bustos. 2012. Mammalian Ichnofauna from the Upper Pleistocene Deposits at White Sands National Monument, Otero County, New Mexico. *Geological Society of America, Abstracts with Programs* 44(6):76.

GRANTS & SCHOLARSHIPS

Total = \$84,750

- 2019: *Alabama Geological Society John G. Newton / John S. Winefordner Memorial Scholarship. \$500.* A novel experimentally based assessment of marine reptile macroevolutionary trends incorporating newly discovered Alabama fossil material.
- 2017: *Catherine P. Ireland Scholarship. \$750.* Investigation of Alabama fossil specimens housed at the Field Museum of Natural History.
- 2016: *University of Alabama at Birmingham Student Travel Grant. \$500.*
- 2015 – 2020: *Department of Biology Graduate Scholarship. \$68,000.* University of Alabama at Birmingham.
- 2010 – 2013: *Department of Biology Academic Scholarship. \$15,000.* New Mexico State University.

SELECTED PUBLIC ENGAGEMENT

- 2021, December: The Lost Continent: Investigating the Late Cretaceous paleoecosystems of Appalachia. *Presentation given as part of the SciCafe series hosted by the Birmingham Civitan Club*
- 2021, August: The Late Cretaceous terrestrial ecosystems of Appalachia. *Presentation to the Alabama Paleontological Society.*
- 2020, March: Skype session with the 2nd grade of Williams Elementary in Huntsville, AL discussing Alabama paleontology
- 2020, January: Skype session with the undergraduate herpetology class of Dr. Scott Rush in the Wildlife Department at Mississippi State University.
- 2019, May: Using the past to protect the future: A paleontological perspective on modern conservation policy. *Presentation to Alabama Paleontological Society.*
- 2019, May: Skype session with 4th grade of McDonnell Elementary in Huntsville, AL discussing Alabama paleontology.
- 2019, January: Poster on Alabama paleobiodiversity for UAB Darwin Day Celebration.
- 2018, September: Alabama's latest contributions to the study of marine turtle evolution. *Presentation to the Alabama Paleontological Society.*
- 2017, June: A work in progress: The importance of Alabama fossils in the study of evolution. *Presentation to the Alabama Paleontological Society.*
- 2016, October: Ancient sea turtles of Alabama: Using fossils from the Deep South to solve a global mystery. *Presentation to the Birmingham Paleontological Society.*

- 2015, August: The Cretaceous marine turtle *Ctenochelys acris* and a revision of the ‘toxochelyids’ of Alabama. *Presentation to the Alabama Paleontological Society*.
- 2014, March: New toxochelyid material from the upper Cretaceous of Alabama and a systematic revision of the genus *Ctenochelys*. *Presentation to the Birmingham Paleontological Society*.
- 2014, January: The Pleistocene megafauna of White Sands, New Mexico. *Presentation to the Alabama Paleontological Society*.
- 2013, November: A survey of the mammalian ichnofauna from the upper Pleistocene of White Sands, New Mexico. *Presentation to the Birmingham Paleontological Society*.
- 2012-2013: Conducted public astronomy, chemistry, and physics programs at elementary, middle, and high schools across Alabama as a McWane Science Center outreach presenter.
- 2011, October: National Park Service outreach program at Desert Hills Elementary as part of National Fossil Day.

SELECTED MEDIA

- 2021, May: Appeared in the Emmy winning television series “Discovering Alabama” produced by the Alabama Museum of Natural History.
- 2020, January: My research on *Asmodochelys* was featured on multiple news broadcasts from the Birmingham affiliates of CBS, ABC, and NBC.
- 2020, January: Interviewed by Midday Mobile talk show to discuss Alabama fossils. [[Link](#)]
- 2020, January: My research on *Asmodochelys* was featured on AL.com. [[Link](#)]
- 2019, December: My research on *Asmodochelys* was featured by UAB News, Phys.org, and SciNews. [[Link](#)]
- 2018, November: Scientific American online article featuring my research on *Prionochelys*. (Sawback turtle gets a new look) [[Link](#)]
- 2018, September: Interviewed by Roger Reid for upcoming episode of “Discovering Alabama” focused on Alabama fossils.
- 2018, May: Interviewed by Canadian Geographic about my work with *Peritresius martini*.
- 2018, April: Scientific American online article featuring my research on *Peritresius martini*. (Paleo Profile: Martin’s Sea Turtle) [[Link](#)]
- 2018, April: My research on *Peritresius martini* was featured by UAB News, Science Daily, PLOS Research News, and many others. [[Link](#)]
- 2017, October: Appeared in the documentary series “Speaking Evolution” by Roger Reid on Alabama Public Television.
- 2016, September-November: My research on *Ctenochelys acris* was featured by UAB News, Science News, Marine Science Today, and many others. [[Link](#)]
- 2012, October: My work restoring the Binns Mastodon was featured in an article in the Las Cruces Sun-News.
- 2012, July: Appeared in the children’s science program “Exploration Nation” on PBS [[Link](#)]
- 2011, August: Feature story on NPR’s Morning Edition about my co-discovery of the Pleistocene trackways at White Sands National Monument.
- 2011, July: My co-discovery of Pleistocene trackways at White Sands National Monument was featured in an article in the Las Cruces Sun-News.
- 2010, September-August: My work assisting with the excavation of the Binns Mastodon was featured in articles in the Albuquerque Journal, the Las Cruces Bulletin and the Decatur Daily. [[Link](#)]

PROFESSIONAL ACTIVITIES

Mentoring, Department of Biology, University of Alabama at Birmingham

Graduate Thesis (n=1): Madeleine Caraway (2021-Present)

Non-Thesis Master's (n=2): Saylah Weeks (2021-Present), Olivia Gabel (2021-Present)

2020, December: Created a Graduate Student in Residence program at McWane Science Center to allow graduate students from underrepresented demographics in the Department of Biology at the University of Alabama at Birmingham to gain research experience.

Other professional activities

2020, February: Established a partnership between the Aquatic Animal Research Laboratory at the University of Alabama at Birmingham and the World of Water Aquarium at McWane Science Center to promote science education in the central Alabama region.

Teaching, Department of Biology, University of Alabama at Birmingham

2021, Fall: *Introductory Biology II - BY 124L* (2 sections)
2021, Spring: *Introductory Biology I - BY123L* (3 sections)
2020, Fall: *Introductory Biology II - BY 124L* (2 sections)
2020, Spring: *Human Physiology – BY 216* (1 section)
2020, Spring: *Introductory Biology II - BY 124L* (2 sections)
2019, Fall: *Genetics – BY 210* (1 section)
2019, Fall: *Introductory Biology II – BY 124L* (1 section)
2019, Summer: *Introductory Biology II – BY 124L* (1 section)
2019, Spring: *Introductory Biology II - BY 124L* (2 sections)
2018, Fall: *Introductory Biology II - BY 124L* (2 sections)
2018, Summer: *Introductory Biology II - BY 124L* (1 section)
2018, Spring: *Introductory Biology II - BY 124L* (2 sections)
2017, Fall: *Introductory Biology II - BY 124L* (2 sections)
2017, Summer: *Introductory Biology II - BY 124L* (1 section)
2017, Spring: *Introductory Biology II - BY 124L* (2 sections)
2016, Fall: *Introductory Biology II - BY 124L* (2 sections)
2016, Summer: *Introductory Biology I - BY123L* (1 section)
2016, Spring: *Introductory Biology I - BY123L* (2 sections)
2015, Fall: *Introductory Biology I - BY123L* (1 section)

Professional Certifications

2019: *Associate level certification in STEM education* – Center for the Integration of Research, Teaching, and Learning (CIRTL)

2018: *Responsible Conduct of Research certification* – Collaborative Institutional Training Initiative (CITI) Program

Referee (number of manuscripts if > 1)

Evolutionary Biology, Palaeodiversity, PeerJ (2), Journal of Vertebrate Paleontology (2), Cretaceous Research, Journal of Systematic Palaeontology

Memberships

2019 – Present: Alabama Geological Society

2018 – Present: Sigma Xi Honor Society

2017 – Present: Phi Kappa Phi Honor Society

2015 – Present: Alabama Paleontological Society