**Andrew Douglas Gentry**

Email: Gentryd@uab.edu

**Education**

**PhD** Biology **2015-Present**

The University of Alabama at Birmingham

**MSc** Biology **2015**

The University of Alabama at Birmingham

**BS**  Biology with a minor in Chemistry **2012**

New Mexico State University

**Honors, Awards, & Memberships**

* **Phi Kappa Phi 2017-Present**

UAB Chapter

* **Sigma Xi 2017-Present**

UAB Chapter

* **Catherine P. Ireland Scholarship 2016**

University of Alabama at Birmingham

* **Department of Biology Graduate Scholarship 2015-Present**

University of Alabama at Birmingham

* **Biology Departmental Academic Scholarship 2010-12**

New Mexico State University

**Research Experience**

* **Alabama Museum of Natural History 2015 – Present**

Research Assistant / Fossil Preparator

- Repair and restore various fossil specimens housed in the paleontological collections

at the museum.

- Assist the Director of Collections with field expeditions, specimen restoration, and

any research associated with specimens housed at the museum.

* **McWane Science Center Natural History Department 2013 - Present**

Research Associate / Fossil Preparator

* Perform restoration and curatorial work on the fossil and comparative specimens housed in the natural history collections at McWane Science Center.
* Assist with various research projects conducted by the Director of Collections.
* **Geological Society of America GeoCorps Internship Summer 2011**

Field Paleontologist, White Sands National Monument

* Served as research team lead for a federally funded survey of the monument’s paleontological resources.
* Established research methodologies and resource documentation practices now implemented by monument staff.
* Documented hundreds of fossilized tracks including 3 new ichnospecies, which represented the largest paleontological research effort in the monument’s 125 year history.
* **New Mexico State University Vertebrate Museum 2010-12**

Preparator / Research Assistant

* Performed acetic acid etching on Oligocene avian, mammalian and reptilian fossils encased in calcareous limestone nodules.
* Served as research assistant to Dr. Peter Houde during the excavation and reconstruction of the Binns Mastodon.

**Recent Work Experience**

* **University of Alabama at Birmingham, Biology Department 2016-Present**

Graduate Teaching Assistant / BY124 Laboratory Instructor

* Conduct undergraduate level laboratories designed to follow the established

curriculum of the associated lecture course.

* Instruct students in proper dissection protocols and handling of dissection equipment.
* Subjects covered during a typical semester include plant, fungal, invertebrate and vertebrate taxonomy, gross anatomy, embryonic development, histology, ecology and advanced systematics.
* **University of Alabama at Birmingham, Biology Department 2015**

Graduate Teaching Assistant / BY123 Laboratory Instructor

- Conducted undergraduate level laboratories designed to follow the established

curriculum of the associated lecture course.

- Instructed students in proper biological laboratory techniques including slide

preparation, culturing of microorganisms, and hazardous material handling.

- Subjects covered during a typical semester include micro- and cellular biology,

introductory biochemistry (pH, buffers, and enzymes), molecular genetics, population

genetics, taxonomy, and basic systematics.

* **McWane Science Center 2012-13**

Science Educator

* Developed and instructed laboratory and seminar style courses in biological, physical, geological and life sciences for school children in grades K-12.
* Courses were constructed using current Alabama Core Standards for science education and were designed to be a supplement to the student’s normal coursework.
* Conducted weekly outreach programs designed to provide hands-on laboratory science for children in underprivileged school systems or communities.
* Led large, public, seminar style lectures on various scientific topics ranging from basic mechanical physics to elementary biochemistry.
* Corresponded with local print and broadcast media outlets regarding upcoming events, classes being offered, and new exhibits at McWane Science Center.

**Peer-Reviewed Publications**

* Gentry, A., Burns, M. Growth dynamics of Cretaceous marine turtles (Testudines:Pan-

Chelonioidea) inferred from limb bone paleohistology. *In preparation*.

* Gentry, A., Ebersole, J. The paleobiogeography of Maastrichtian chelonioids *sensu*

*stricto* and the description of a new species (*Allopleuron ripleyi sp. nov.*) from

the Mooreville Chalk (Campanian-Maastrichtian) of Alabama, USA. *In*

*preparation*.

* Gentry, A. A systematic revision of the genus *Toxochelys* and a new genus of

marine adapted turtle (*Selmachelys gen. nov.*) from the Upper Campanian of

Alabama, USA. *In preparation*.

* Gentry, A. *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. *In press.*

* Gentry, A., Parham, J., Ehret, D., Ebersole, J. 2018. A new species of *Peritresius* Leidy,

1856 (Testudines: Pan-Cheloniidae) from the Late Cretaceous (Maastrichtian) of

Alabama, USA, and the occurrence of the genus within the Mississippi

Embayment of North America. *PLOS ONE*, 13(4): e0195651.

* Gentry, A. and Ebersole, J. 2018. The first report of *Toxochelys latiremis* Cope, 1873

(Testudines: Pan-Chelonioidea) from the Late Cretaceous

(Santonian/Campanian) Mississippi Embayment of Alabama, USA. *PaleoBios*,

Vol. 35.

* Gentry, A. 2016. 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,* Vol. 15, No. 8, pp. 675-696.

* Gentry, A. 2015. A redescription of the Cretaceous marine turtle *Ctenochelys acris*

(Zangerl, 1953) and a systematic revision of the ‘toxochelyid’-grade taxa

using cladistic analysis. *A thesis submitted to the University of Alabama at*

*Birmingham*, 84 pp.

* Gentry, A., Franco, C. and Bustos, D., 2012. Mammalian Ichnofauna from the Upper

Pleistocene Deposits at White Sands National Monument, Otero County, New

Mexico. *Geological Society of America, Abstracts with Programs*, Vol. 44, No.

6, pp. 76.

* Gentry, A. 2011. Mammalian Ichnofauna of White Sands National Monument. *Geoscientists-In-the-Parks document,* National Park Service, Denver, Colorado*.*

**Conference Presentations**

* Gentry, A. 2015. A Redescription of the Cretaceous Marine Turtle *Ctenochelys acris*

and a Systematic Revision of the ‘Toxochelyid’-Grade Taxa Using Cladistic

Analysis. *Presentation at the 8th Annual Meeting of the Southeastern*

*Association of Vertebrate Paleontology.*

* Gentry, A. 2014. New Stem Chelonioid Material from the Upper Cretaceous of Alabama

and the Taxonomic Validity of the Genus *Ctenochelys*. *Poster, 7th Annual*

*Meeting of the Southeastern Association of Vertebrate Paleontology*.

**Non-Conference Presentations**

* Gentry, A. 2017. A Work in Progress: The Importance of Alabama Fossils in the Study of

Evolution. *Presentation to the Alabama Paleontological Society.*

* Gentry, A. 2016. Ancient Sea Turtles of Alabama: Using Fossils from the Deep South to

Solve a Global Mystery. *Presentation to the Birmingham Paleontological*

*Society.*

* Gentry, A. 2015. The Cretaceous Marine Turtle *Ctenochelys acris* and a Revision of the

‘Toxochelyids’ of Alabama. *Presentation to the Alabama Paleontological*

*Society.*

* Gentry, A. 2014. New Toxochelyid Material from the Upper Cretaceous of Alabama and

a Systematic Revision of the Genus *Ctenochelys*. *Presentation to the Birmingham*

*Paleontological Society.*

* Gentry, A. 2014. The Pleistocene Megafauna of White Sands, New Mexico. *Presentation*

*to the Alabama Paleontological Society*.

* Gentry, A. 2013. A Survey of the Mammalian Ichnofauna of the Upper Pleistocene of

White Sands, NewMexico. *Presentation to the Birmingham Paleontological*

*Society.*

**Professional Service**

Journals reviewed for:

* **PeerJ** 2017-Present
* **Evolutionary Biology** 2018-Present