

Curriculum Vitae

William A. Reyes

Jackson School of Geosciences
University of Texas at Austin

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EDUCATION

Fall 2020 – Expected 2025	Ph.D.*	University of Texas at Austin, Geological Sciences Advisor: Dr. Christopher Bell
Fall 2013 – Summer 2018	B.S.	University of Houston – Downtown, Geosciences <i>Summa Cum Laude</i>

POSITIONS

Fall 2020 – Present	Ph.D. Student, The University of Texas at Austin
May 2021 – August 2021	Vertebrate Paleontology Intern, Petrified Forest National Park
May 2019 – October 2019	
Fall 2017 – Spring 2018	Scholars Academy Peer Mentor, The University of Houston– Downtown

ACTIVE RESEARCH INTERESTS

Current research interests include: **1)** The macroevolutionary processes that drive vertebrate evolution; **2)** The faunal dynamics (i.e., speciation, extinction, geographic range shifts, ecomorphological diversity) in the Late Triassic; **3)** The endocranial morphology and paleoneurology of Triassic pseudosuchians to better understand their paleoecology; **4)** The ontogeny of early-diverging pseudosuchians, and how it compares to that of other archosaurs (extinct and extant).

PEER-REVIEWED PUBLICATIONS

Reyes, W. A., W. G. Parker, and A. D. Marsh. 2021. Cranial Anatomy and Dentition of the Aetosaur *Tyothorax coccinarum* (Archosauria: Pseudosuchia) from the Upper Triassic (Revueltian—Mid Norian) Chinle Formation of Arizona. *Journal of Vertebrate Paleontology*. DOI 10.1080/02724634.2020.1876080.

MANUSCRIPTS IN PREPARATION

Martz, J. W., Parker, W. G., Small, B., and **Reyes, W. A.** in preparation. Cranial and mandibular morphology of aetosaurs (Archosauria, Pseudosuchia) from the Otis Chalk locality (Dockum Group, Upper Triassic) of Howard County, West Texas, including a redescription of the lectotype and paralectotype of *Longosuchus meadei*.

PUBLISHED ABSTRACTS/ CONFERENCE PRESENTATIONS

Reyes, W. A. 2021. Paleoneuroanatomy of the aetosaur *Longosuchus meadei* (Archosauria: Pseudosuchia) from the Upper Triassic (Otischalkian–Carnian) Dockum Group of Howard County, northwestern Texas. *10th Annual Jackson School Student Research Symposium*. Online (poster).

Reyes, W. A., W. G. Parker, and A. D. Marsh. 2020. Cranial Anatomy and Dentition of the Aetosaur *Typhothorax coccinarum* (Archosauria: Pseudosuchia) from the Upper Triassic (Revueltian—Mid Norian) Chinle Formation of Arizona. *Society of Vertebrate Paleontology 80th Annual Meeting*. Online (poster).

Beightol, C. V., W. G. Parker, J. W. Martz, A. D. Marsh, and **W. A. Reyes**. 2018. Estimating the statistical error of observed biostratigraphic ranges within Adamanian–Revueltian vertebrate assemblages of the Late Triassic Chinle Formation of Arizona to test for an abrupt turnover event. *Society of Vertebrate Paleontology 78th Annual Meeting*. Albuquerque, New Mexico (poster).

Reyes, W. A., S. Muttel, and J. W. Martz. 2017. Using confidence intervals to evaluate biostratigraphic ranges in the Chinle Formation. *Student Research Conference 16th Annual Meeting*. Houston, Texas (poster).

Muttel, S., **W. A. Reyes**, H. Savage, J. Torres, and J. W. Martz. 2017. Lithostratigraphy and Biostratigraphy of the Chinle Formation. *Student Research Conference 16th Annual Meeting*. Houston, Texas (poster).

OTHER PRESENTATIONS AND LECTURES

Reyes, W. A. October 1, 2020. *Typhothorax coccinarum* and its significance in understanding the evolution of the Aetosauria. Jackson School of Geosciences Paleontology Seminar (talk).

FELLOWSHIPS, GRANTS, AND SCHOLARSHIPS (Total awarded: \$189,083)

Awarded Fall 2021	National Science Foundation Graduate Student Research Fellowship (\$102,000 over 3 years)
Fall 2020 – Spring 2021	Graduate School Mentoring Fellowship (\$30,000)
Fall 2015	Be on Time Grant (\$4,000 over 2 years) Texas Public Education Grant (\$1,500)
Fall 2014	Nuclear Regulatory Commission Scholarship (\$13,400 over 4 years)
Fall 2013	Federal Pell Grant (\$20,150 over 4 years) Texas Grant (\$17,340 over 3 years) University of Houston Merit FTIC Scholarship (\$693)

HONORS AND AWARDS

Fall 2017, Fall/Spring 2016, Fall 2013	Dean’s List: The University of Houston – Downtown, College of Science and Technology
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PROFESSIONAL ASSOCIATIONS

2018 – Present Society of Vertebrate Paleontology
2016 – Present The Geological Society of America

OUTREACH AND SERVICE

Event Participation

November 2020. Enhancing Diversity in Geosciences Graduate Education (EDGE), Jackson School of Geosciences at UT–Austin

Engaged with potential JSG graduate student applicants from underrepresented communities. As a former participant of this program, I shared with them my experiences prior to getting into graduate school, including the graduate application process, as well as my research focus here at UT–Austin.

July 2019. Field Dig Day, Petrified Forest National Park

Took a group of visitors out to the field with us for a day so they can experience an active excavation with paleontologists

June 2019. Dinosaur Day, Petrified Forest National Park

Schools from the surrounding towns of the Navajo Nation and Hopi Reservation are invited to learn about the paleontology of the park

Volunteering

Fall 2016 – Spring 2020. Paleontology hall tour guide at the Houston Museum of Natural Science

Engaged with the visitors and school groups by providing scientific insight about the displays while teaching them about earth history and geology

Organization

Fall 2017 – Spring 2018. Scholars Academy community engagement

As Peer mentor I arranged several volunteer days for our group of geology majors to interact with visitors in the Paleontology Hall of the Houston Museum of Natural Science

FIELD WORK EXPERIENCE

Summer 2021, 2019. Petrified Forest National Park, Arizona, U.S.A.

Field work focusing on understanding the diversity of microvertebrates during the Late Triassic in North America. Resulted in the discovery of a possible new species of aetosaur.

Summer 2019. Ghost Ranch, Abiquiu, New Mexico, U.S.A.

Fieldwork focused on understanding early archosaur evolution from the Upper Triassic Chinle Formation in North America.

Summer 2018. Central Colorado, U.S.A.

Mapping the geology of Kaufman Ridge.

Summer 2017. Northern Arizona, U.S.A.

Excavated two aetosaur skeletons from the Upper Triassic Chinle Formation and studied the local stratigraphy.

Summer 2016. Glen Canyon and Grand Staircase–Escalante National Monument, Utah, U.S.A.

Focused on correlating the stratigraphy of the Upper Triassic Chinle Formation in Utah to the sections in Arizona.

SHORT COURSES AND TRAININGS

October 19–23, 2020. University of Texas High-Resolution X-Ray CT Facility (UTCT) online short course.

Focused on the fundamentals of acquisition, visualization, analysis, and mobilization of High-Resolution X-Ray CT (HRXCT) data.

Spring 2021. URGE, Unlearning Racism in the Geosciences

Participant of a pod at the Jackson School of Geosciences. The goal is to discuss the issues within our institutions about racial inequality and how we, as members of the program, can promote change and become a welcoming environment for minorities (e.g., faculty, students).

GRADUATE COURSEWORK

First Year Graduate Student 2020-2021

Fall 2020: GEO 389E (Evolution of Reef Ecosystems); BIO 390C (Fundamentals of Evolution); BIO 384K (Phylogenetic Perspectives)

Spring 2021: GEO 391 (Earth in Deep Time); GEO 391 (3D Analysis of Volumetric Data); BIO 380L (Advanced Systematics)