



**THOMAS A. SHILLER II, Ph.D.**

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**EDUCATION**

Ph.D.

**Texas Tech University, Lubbock**  
Geoscience, May 2017

Dissertation: “**Stratigraphy and paleontology of Upper Cretaceous strata in northern Coahuila, Mexico**”

Scholarships and Awards: **John P. Brand Memorial Scholarship**

M.S.

**Texas Tech University, Lubbock**  
Geoscience, 2012

Thesis: “**A dyrosaurid crocodylian from the Cretaceous (Maastrichtian) Escondido Formation of Coahuila, Mexico**”

B. S.

**Sul Ross State University, Alpine**  
Geology, 2009  
Minor: Biology

Scholarships and Awards: **David M. Rohr Scholarship,**  
**Julius Dasch Outstanding Undergraduate Geology Student,**  
**Texas Space Grant Consortium Scholarship**

**TEACHING EXPERIENCE**

**Sul Ross State University; Department of Biology, Geology, and Physical Sciences**

**Assistant Professor**

*Physical Geology*—2017–present  
*Historical Geology*—2018–present  
*Stratigraphy and Sedimentation*—2018–present  
*Dinosaurs, Volcanoes, and Earthquakes*—2017–present  
*Vertebrate Paleontology*—2018–present  
*Intro to Field Geology*—2018–present  
*Field Methods*—2018–present  
*Advanced Structural Methods*—2019

*Dynamic Stratigraphy*—2019  
*Structural Geology*—2020

Texas Tech University, Department of Geosciences

**Teaching Assistant**

*Advanced Field Methods*—Summer, 2010–2015  
*Sedimentary Field Methods*—Spring; 2011–2014, 2017  
*Stratigraphy and Sedimentology*—Fall, 2016

**Lab Instructor**

*Historical Geology*—Fall, 2011–2015; Summer, 2016

Sul Ross State University, Department of Earth and Physical Sciences

*Texas Pre-freshman Engineering Program (TexPREP)*—2009

**RESEARCH**

Sul Ross State University, Department of Biology, Geology, and Physical Sciences

**Big Bend National Park, Texas**—present  
Collect and document Cretaceous–Paleogene vertebrate fossil material under permit from the National Park Service.

**Northern Coahuila, Mexico**—present  
Conducting an ongoing study of the paleontology and stratigraphy of Upper Cretaceous strata of the region of Mexico adjacent to Big Bend National Park and the Región Carbonífera of Coahuila.

**Sierra Rica, Chihuahua, Mexico**—present  
Collaborating with researchers from Angelo State University and Mexico, conducting geologic research in the Sierra Rica region of northern Chihuahua, Mexico.

Texas Tech University, Department of Geosciences

**Northern Coahuila, Mexico**—2009–present  
Conducting an ongoing study of the paleontology and stratigraphy of Upper Cretaceous strata of the region of Mexico adjacent to Big Bend National Park and the Región Carbonífera of Coahuila.

**Big Bend National Park, Texas**—2009–present  
Collect and document Cretaceous–Paleogene vertebrate fossil material under permit from the National Park Service.

**Southeast Alaska**—Summer, 2013 & 2014

Assisted in a paleontological and stratigraphic study of Paleozoic carbonate rocks of the Alexander terrane, Tongass National Forest.

**Ogallala Project—2009–2014**

Assisted in petrographic study the Ogallala Formation, New Mexico and Texas.

**Sul Ross State University, Rio Grande Research Center**

**Research Assistant—2006–2009**

Monitored stream discharge and chemistry, groundwater levels and chemistry, and meteorological data stations in the Trans-Pecos region of Texas.

**PUBLISHED ARTICLES**

Wick, S.L. and Shiller, T.A., 2020. New taxa among a remarkably diverse assemblage of fossil squamates from the Aguja Formation (lower Campanian) of West Texas, Cretaceous Research.

Lehman, T.M., Wick, S.L., Brink, A., and Shiller, T.A., 2019. Stratigraphy and vertebrate fauna of the lower shale member of the Aguja Formation (Lower Campanian) in West Texas, Cretaceous Research.

Shiller, T.A., Porras-Muzquiz, H.G. and Lehman, T.M., 2016. *Sabinosuchus coahuilensis*, a new dyrosaurid crocodyliform from the Escondido Formation (Maastrichtian) of Coahuila, Mexico. *Journal of Vertebrate Paleontology*.

**CONFERENCE ABSTRACTS**

Frederick, P. A., Shiller, T. A., Rohr, D. M., Baichtal, J. F. 2015. A preliminary report on the stratigraphy and biostratigraphy of the Peratrovich Formation and Ladrones Limestone. Geological Society of America, 111<sup>th</sup> Annual meeting.

Baichtal, J. F., Blodgett, R. B., Frederick, P. A., Rohr, D. M.; Shiller, T. A., Stevens, C. H. 2015. An overlooked Permian unit in the Craig quadrangle, Alexander terrane, SE Alaska. Geological Society of America, 111<sup>th</sup> Annual meeting.

Shiller, T. A. 2012. A dyrosaurid crocodylian from the Cretaceous Olmos Formation of Coahuila, Mexico. *Geologic Society of America Abstracts with Programs* 44:3.

Shiller T. A., K. Urbanczyk, and A. Beall. 2009, Introducing Water Science To Middle School Students Through The Texas Pre-freshman Engineering Program (TexPREP), Geological Society of America, 2009 Annual meeting.

**INVITED TALKS AND FIELD TRIPS**

## **World Heritage Site Assessment**

**Paleontological Resource Expert/Guide—2020**

## **Backcountry Classroom**

**Geology Hike Leader—2019**

## **Christmas Mountains Research Symposium**

**Paleontology Hike Leader—2019**

## **Core Curriculum Assessment Meeting**

**Invited Speaker—2019**

## **First Friday Math & Science Lecture, Midland College, Midland, Texas**

**Invited Speaker—2018**

“WEST TEXAS DINOSAURS AND THE GEOLOGY OF BIG BEND”

## **XIV Congreso Nacional de Paleontología, Múzquiz, Coahuila**

**Keynote Speaker—2015**

“Historia Geologica y Paleontologica del Cretacico-Paleogenico de la region del Big Bend de Texas y Coahuila, Mexico”.

## **RESEARCH PERMITS**

### **Big Bend National Park**

**2020–2021:** Vertebrate Fossil Salvage in Big Bend National Park

**2019–2020:** Structural Analysis and Synthesis of the Chisos Pen Region, Big Bend National Park

**2019–2020:** Vertebrate Fossil Salvage in Big Bend National Park

**2017–2018:** Stratigraphy and paleontology of Upper Cretaceous-Paleogene strata in northern Mexico and adjacent Big Bend National Park, Texas

**2015–2016:** Stratigraphy and paleontology of Upper Cretaceous-Paleogene strata in northern Mexico and adjacent Big Bend National Park, Texas

**2010–2012:** Stratigraphy and paleontology of the Tornillo Group (Upper Cretaceous - Eocene), south of Chisos Mountains, Big Bend National Park, Texas

## **GRADUATE STUDENT PROJECTS (COMPLETED)**

LITHOLOGIES, DEPOSITIONAL ENVIRONMENTS AND SEQUENCE  
STRATIGRAPHY OF PART OF THE FREDERICKSBURG AND WASHITA GROUPS  
EXPOSED EAST OF FORT STOCKTON, TEXAS

LITHOFACIES, DEPOSITIONAL ENVIRONMENTS AND SEQUENCE  
STRATIGRAPHY OF A PART OF THE FORT TERRETT FORMATION, WEST TEXA

### **GRADUATE STUDENT PROJECTS (IN PROGRESS)**

A BAENID TURTLE FROM THE UPPER SHALE MEMBER OF THE AGUJA  
FORMATION (CRETACEOUS), BIG BEND NATIONAL PARK, TEXAS

STRUCTURAL GEOLOGY OF THE 'CHISOS PEN' REGION, BIG BEND NATIONAL  
PARK, TEXAS

A HADROSAURID DINOSAUR FROM THE UPPER AGUJA FORMATION NEAR  
PEÑA MOUNTAIN, BIG BEND NATIONAL PARK, TEXAS

### **SYNERGISTIC ACTIVITIES**

**Faculty Advisor: Sul Ross Geology Club**

**Co-host: "Science Knights in the Morning" Science radio show**

**Faculty Councils and Committees:**

**Disciplinary Council**

**Library Council**

**Research Council**

**BGPS Scholarship Committee**

### **MEMBERSHIPS**

**La Sociedad Mexicana de Paleontología**

**Sigma Gamma Epsilon Honor Society**

**Big Bend Sportsman's Club**

### **LANGUAGES**

**Spanish**—limited professional proficiency