

Arthur B Busbey III
Fall 1985 - Spring 2021
Asoc Professor
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Academic Background: Education

Ph.D., Anatomy, University of Chicago, Chicago, Illinois, United States, 1982, Form and function of the jaw musculature of *Alligator mississippiensis*.

M.S., Geology, University of Texas, Austin, Texas, United States, 1977

B.S., Geology, University of Texas, Austin, Texas, United States, 1974

Academic Background: Current position/rank

Position: Associate Professor of Geology

Position: Chair, Department of Geological Sciences

Current Academic Rank: Asoc Professor

Tenure Status: Tenured

Year of Hire: 1985

Academic Background: Work experience

Teaching/Research Appointment

Director of Faculty eLearning, Texas Christian University, Fort Worth, 2001 - 2003, 2003

Assistant & Associate Professor of Geology and member of the Graduate Faculty, Texas Christian University, Fort Worth, Texas, 1985 - 2019, 2019

Special Associate Member of the Graduate Faculty, The University of Texas at Austin, Austin, 1982 - 1995, 1995

Instructor, University of Texas, Austin, Texas, 1982 - 1985, 1985

Course Assistant, Dr. R. Eric Lombard, Department of Anatomy, The University of Chicago, Chicago, Illinois, 1981 - 1981, 1981

Research Assistant and Senior Research Technician, Dr. James A. Hopson, Department of Anatomy, The University of Chicago, Chicago, Illinois, 1980 - 1981, 1981

Lecturer, Adult Education, Field Museum of Natural History and Shedd Aquarium, Chicago, Illinois, 1979 - 1981, 1981

Course Assistant, Department of Anatomy and The College, The University of Chicago, Chicago, Illinois, 1978 - 1981, 1981

Research Associate - Field Assistant (South Africa), Dr. James A. Hopson, Department of Anatomy, The University of Chicago, Chicago, Illinois, 1978 - 1978, 1978

Teaching Assistant, Department of Geological Sciences, The University of Texas at Austin, Austin, Texas, 1975 - 1977, 1977

Field Assistant, Russell Graham, Department of Geological Sciences, The University of Texas at Austin, Austin, Texas, 1974 - 1974, 1974

Research Assistant, Dr. E.L. Lundelius, Jr., Department of Geological Sciences, The University of Texas at Austin, Austin, Texas, 1972 - 1974, 1974

Additional Activities

Curatorial Assistant, Vertebrate Paleontology Laboratory, Texas Memorial Museum, Texas, 1976 - 1977, 1977

Teaching: Courses Taught

Fall 2020

| Semester | Course Prefix | Course Number | Section | Course Title |
|-----------|---------------|---------------|---------|--------------|
| Fall 2020 | GEOL | 30573 | 030 | Stratigraphy |
| Fall 2020 | GEOL | 30573 | 130 | Stratigraphy |

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|-----------|------|-------|-----|--|
| Fall 2020 | GEOL | 40970 | 703 | Special Problems: Palaeontology |
| Fall 2020 | GEOL | 50901 | 005 | Introduction to Computer Applications in Geology |
| Fall 2020 | GEOL | 50912 | 005 | Geological Statistics |

Spring 2020

| Semester | Course Prefix | Course Number | Section | Course Title |
|-------------|---------------|---------------|---------|---------------------------|
| Spring 2020 | GEOL | 30123 | 020 | Dinosaurs and Their World |
| Spring 2020 | GEOL | 40313 | 005 | Invertebrate Paleontology |
| Spring 2020 | GEOL | 40313 | 105 | Invertebrate Paleontology |
| Spring 2020 | GEOL | 60710 | 035 | Geology Seminar |

Fall 2019

| Semester | Course Prefix | Course Number | Section | Course Title |
|-----------|---------------|---------------|---------|--|
| Fall 2019 | GEOL | 30573 | 030 | Stratigraphy |
| Fall 2019 | GEOL | 30573 | 130 | Stratigraphy |
| Fall 2019 | GEOL | 40893 | 079 | Senior Thesis |
| Fall 2019 | GEOL | 50901 | 005 | Introduction to Computer Applications in Geology |
| Fall 2019 | GEOL | 50912 | 005 | Geological Statistics |

Summer 2019

| Semester | Course Prefix | Course Number | Section | Course Title |
|-------------|---------------|---------------|---------|--------------|
| Summer 2019 | GEOL | 30233 | 530 | Rock Cycle |

Spring 2019

| Semester | Course Prefix | Course Number | Section | Course Title |
|-------------|---------------|---------------|---------|---------------------------|
| Spring 2019 | GEOL | 40313 | 005 | Invertebrate Paleontology |
| Spring 2019 | GEOL | 40313 | 105 | Invertebrate Paleontology |
| Spring 2019 | GEOL | 60710 | 035 | Geology Seminar |

Fall 2018

| Semester | Course Prefix | Course Number | Section | Course Title |
|-----------|---------------|---------------|---------|--|
| Fall 2018 | GEOL | 30573 | 030 | Stratigraphy |
| Fall 2018 | GEOL | 30573 | 130 | Stratigraphy |
| Fall 2018 | GEOL | 40970 | 703 | Special Problems: Palaeontology |
| Fall 2018 | GEOL | 50901 | 005 | Introduction to Computer Applications in Geology |
| Fall 2018 | GEOL | 50912 | 005 | Geological Statistics |
| Fall 2018 | GEOL | 70970 | 702 | Special Problems: Vertebrate Paleontology |

Spring 2018

| Semester | Course Prefix | Course Number | Section | Course Title |
|-------------|---------------|---------------|---------|---------------------------|
| Spring 2018 | GEOL | 30123 | 020 | Dinosaurs and Their World |
| Spring 2018 | GEOL | 40313 | 005 | Invertebrate Paleontology |
| Spring 2018 | GEOL | 40313 | 105 | Invertebrate Paleontology |
| Spring 2018 | GEOL | 60710 | 035 | Geology Seminar |

Fall 2017

| Semester | Course Prefix | Course Number | Section | Course Title |
|-----------|---------------|---------------|---------|----------------------------------|
| Fall 2017 | GEOL | 30573 | 030 | Stratigraphy |
| Fall 2017 | GEOL | 30573 | 130 | Stratigraphy |
| Fall 2017 | GEOL | 50901 | 005 | Computer Applications in Geology |

Spring 2017

| Semester | Course Prefix | Course Number | Section | Course Title |
|-------------|---------------|---------------|---------|---------------------------|
| Spring 2017 | GEOL | 30123 | 020 | Dinosaurs and Their World |
| Spring 2017 | GEOL | 30143 | 005 | Historical Geology II |
| Spring 2017 | GEOL | 30143 | 105 | Historical Geology II |
| Spring 2017 | GEOL | 60710 | 035 | Geology Seminar |

Fall 2016

| Semester | Course Prefix | Course Number | Section | Course Title |
|-----------|---------------|---------------|---------|---|
| Fall 2016 | GEOL | 30133 | 030 | Historical Geology I |
| Fall 2016 | GEOL | 30133 | 130 | Historical Geology I |
| Fall 2016 | GEOL | 40970 | 703 | Special Problems: Palaeontology |
| Fall 2016 | GEOL | 50901 | 005 | Computer Applications in Geology |
| Fall 2016 | GEOL | 50922 | 005 | Mapping Applications for Microcomputers |

Summer 2016

| Semester | Course Prefix | Course Number | Section | Course Title |
|-------------|---------------|---------------|---------|---------------------------------|
| Summer 2016 | GEOL | 40970 | 978 | Special Problems: Field Methods |

Spring 2016

| Semester | Course Prefix | Course Number | Section | Course Title |
|-------------|---------------|---------------|---------|--------------------------------|
| Spring 2016 | GEOL | 30123 | 020 | Dinosaurs and Their World |
| Spring 2016 | GEOL | 30143 | 005 | Historical Geology II |
| Spring 2016 | GEOL | 30143 | 105 | Historical Geology II |
| Spring 2016 | GEOL | 40970 | 020 | Special Problems: Paleontology |
| Spring 2016 | GEOL | 60710 | 035 | Geology Seminar |

Fall 2015

| Semester | Course Prefix | Course Number | Section | Course Title |
|-----------|---------------|---------------|---------|----------------------------------|
| Fall 2015 | GEOL | 30133 | 030 | Historical Geology I |
| Fall 2015 | GEOL | 30133 | 130 | Historical Geology I |
| Fall 2015 | GEOL | 40893 | 079 | Senior Thesis |
| Fall 2015 | GEOL | 50901 | 005 | Computer Applications in Geology |

Spring 2015

| Semester | Course Prefix | Course Number | Section | Course Title |
|-------------|---------------|---------------|---------|---------------------------|
| Spring 2015 | GEOL | 30123 | 020 | Dinosaurs and Their World |
| Spring 2015 | GEOL | 30143 | 005 | Historical Geology II |
| Spring 2015 | GEOL | 30143 | 105 | Historical Geology II |
| Spring 2015 | GEOL | 60710 | 056 | Geology Seminar |

Fall 2014

| Semester | Course Prefix | Course Number | Section | Course Title |
|-----------|---------------|---------------|---------|---|
| Fall 2014 | GEOL | 30133 | 030 | Historical Geology I |
| Fall 2014 | GEOL | 30133 | 130 | Historical Geology I |
| Fall 2014 | GEOL | 40970 | 709 | Special Problems: Field Geology |
| Fall 2014 | GEOL | 50901 | 005 | Computer Applications in Geology |
| Fall 2014 | GEOL | 50922 | 005 | Mapping Applications for Microcomputers |

Fall 2013

| Semester | Course Prefix | Course Number | Section | Course Title |
|-----------|---------------|---------------|---------|---|
| Fall 2013 | GEOL | 30133 | 030 | Historical Geology I |
| Fall 2013 | GEOL | 30133 | 130 | Historical Geology I |
| Fall 2013 | GEOL | 40970 | 702 | Special Problems: Paleontology |
| Fall 2013 | GEOL | 50901 | 005 | Computer Applications in Geology |
| Fall 2013 | GEOL | 50912 | 005 | Statistical Applications for Microcomputers |
| Fall 2013 | GEOL | 70970 | 707 | Special Problems: Paleontology |
| Fall 2013 | GEOL | 70980 | 079 | Thesis |
| Fall 2013 | GEOL | 70990 | 079 | Thesis |

Summer 2013

| Semester | Course Prefix | Course Number | Section | Course Title |
|-------------|---------------|---------------|---------|-------------------------|
| Summer 2013 | GEOL | 10113 | 010 | Understanding the Earth |

Spring 2013

| Semester | Course Prefix | Course Number | Section | Course Title |
|-------------|---------------|---------------|---------|---------------------------------|
| Spring 2013 | GEOL | 30123 | 020 | Dinosaurs and Their World |
| Spring 2013 | GEOL | 30143 | 005 | Historical Geology II |
| Spring 2013 | GEOL | 30143 | 105 | Historical Geology II |
| Spring 2013 | GEOL | 40970 | 702 | Special Problems: Palaeontology |

Fall 2012

| Semester | Course Prefix | Course Number | Section | Course Title |
|-----------|---------------|---------------|---------|---|
| Fall 2012 | GEOL | 30133 | 030 | Historical Geology I |
| Fall 2012 | GEOL | 30133 | 130 | Historical Geology I |
| Fall 2012 | GEOL | 40970 | 702 | Special Problems: Paleontology |
| Fall 2012 | GEOL | 50901 | 005 | Computer Applications in Geology |
| Fall 2012 | GEOL | 50922 | 005 | Mapping Applications for Microcomputers |
| Fall 2012 | GEOL | 60710 | 035 | Geology Seminar |

Spring 2012

| Semester | Course Prefix | Course Number | Section | Course Title |
|-------------|---------------|---------------|---------|--|
| Spring 2012 | CHEM | 50230 | 078 | Special Problems in Chemistry: Dance of Continents Tech Elem |
| Spring 2012 | GEOL | 30123 | 020 | Dinosaurs and Their World |
| Spring 2012 | GEOL | 30143 | 005 | Historical Geology II |
| Spring 2012 | GEOL | 30143 | 105 | Historical Geology II |

Fall 2011

| Semester | Course Prefix | Course Number | Section | Course Title |
|-----------|---------------|---------------|---------|--|
| Fall 2011 | CHEM | 50230 | 078 | Special Problems in Chemistry: Educ Outreach with Dance/Scien |
| Fall 2011 | DANC | 20230 | 079 | Directed Studies in Modern Dance: Educ Outreach with Dance/Scien |
| Fall 2011 | ENSC | 40970 | 701 | Special Problems: Field Methods |
| Fall 2011 | ENSC | 70970 | 701 | Special Problems: Field Methods |
| Fall 2011 | GEOL | 30133 | 030 | Historical Geology I |
| Fall 2011 | GEOL | 30133 | 130 | Historical Geology I |
| Fall 2011 | GEOL | 40970 | 707 | Special Problems: Field Methods |
| Fall 2011 | GEOL | 50901 | 005 | Computer Applications in Geology |
| Fall 2011 | GEOL | 50912 | 005 | Statistical Applications for Microcomputers |

Summer 2011

| Semester | Course Prefix | Course Number | Section | Course Title |
|-------------|---------------|---------------|---------|--------------------------------|
| Summer 2011 | GEOL | 10113 | 010 | Understanding the Earth |
| Summer 2011 | GEOL | 10113 | 110 | Understanding the Earth |
| Summer 2011 | GEOL | 40970 | 901 | Special Problems: Paleontology |

Spring 2011

| Semester | Course Prefix | Course Number | Section | Course Title |
|-------------|---------------|---------------|---------|---|
| Spring 2011 | GEOL | 30123 | 020 | Dinosaurs and Their World |
| Spring 2011 | GEOL | 30143 | 005 | Historical Geology II |
| Spring 2011 | GEOL | 30143 | 105 | Historical Geology II |
| Spring 2011 | GEOL | 60710 | 035 | Geology Seminar |
| Spring 2011 | MALA | 61013 | 479 | Themes in Prehistory: Fossils, Dinosaurs and Humans: Fossils, Dinosaurs, and Humans |

Fall 2010

| Semester | Course Prefix | Course Number | Section | Course Title |
|-----------|---------------|---------------|---------|---|
| Fall 2010 | GEOL | 30133 | 030 | Historical Geology I |
| Fall 2010 | GEOL | 30133 | 130 | Historical Geology I |
| Fall 2010 | GEOL | 50901 | 005 | Computer Applications in Geology |
| Fall 2010 | GEOL | 50922 | 005 | Mapping Applications for Microcomputers |

Summer 2010

| Semester | Course Prefix | Course Number | Section | Course Title |
|-------------|---------------|---------------|---------|-------------------------|
| Summer 2010 | GEOL | 10113 | 010 | Understanding the Earth |
| Summer 2010 | GEOL | 10113 | 110 | Understanding the Earth |

Spring 2010

| Semester | Course Prefix | Course Number | Section | Course Title |
|-------------|---------------|---------------|---------|-------------------------------------|
| Spring 2010 | GEOL | 30123 | 020 | Dinosaurs and Their World |
| Spring 2010 | GEOL | 30143 | 005 | Historical Geology II |
| Spring 2010 | GEOL | 30143 | 105 | Historical Geology II |
| Spring 2010 | GEOL | 40970 | 708 | Special Problems: Computer Drafting |
| Spring 2010 | GEOL | 70970 | 709 | Special Problems: Computer Drafting |
| Spring 2010 | GEOL | 70970 | 711 | Special Problems: Computer Drafting |

Fall 2009

| Semester | Course Prefix | Course Number | Section | Course Title |
|-----------|---------------|---------------|---------|---|
| Fall 2009 | GEOL | 30133 | 030 | Historical Geology I |
| Fall 2009 | GEOL | 30133 | 130 | Historical Geology I |
| Fall 2009 | GEOL | 40970 | 702 | Special Problems: Palaeontology |
| Fall 2009 | GEOL | 50901 | 005 | Computer Applications in Geology |
| Fall 2009 | GEOL | 50912 | 005 | Statistical Applications for Microcomputers |

Summer 2009

| Semester | Course Prefix | Course Number | Section | Course Title |
|-------------|---------------|---------------|---------|-------------------------|
| Summer 2009 | GEOL | 10113 | 010 | Understanding the Earth |
| Summer 2009 | GEOL | 10113 | 110 | Understanding the Earth |

Spring 2009

| Semester | Course Prefix | Course Number | Section | Course Title |
|-------------|---------------|---------------|---------|-------------------------------------|
| Spring 2009 | GEOL | 30123 | 020 | Dinosaurs and Their World |
| Spring 2009 | GEOL | 30143 | 005 | Historical Geology II |
| Spring 2009 | GEOL | 30143 | 105 | Historical Geology II |
| Spring 2009 | GEOL | 60710 | 035 | Geology Seminar |
| Spring 2009 | GEOL | 70970 | 705 | Special Problems: Computer Drafting |

Fall 2008

| Semester | Course Prefix | Course Number | Section | Course Title |
|-----------|---------------|---------------|---------|---|
| Fall 2008 | GEOL | 30133 | 030 | Historical Geology I |
| Fall 2008 | GEOL | 30133 | 130 | Historical Geology I |
| Fall 2008 | GEOL | 40970 | 702 | Special Problems: Palaeontology |
| Fall 2008 | GEOL | 50901 | 005 | Computer Applications in Geology |
| Fall 2008 | GEOL | 50922 | 005 | Mapping Applications for Microcomputers |

Summer 2008

| Semester | Course Prefix | Course Number | Section | Course Title |
|-------------|---------------|---------------|---------|-------------------------|
| Summer 2008 | GEOL | 10113 | 010 | Understanding the Earth |
| Summer 2008 | GEOL | 10113 | 110 | Understanding the Earth |

Spring 2008

| Semester | Course Prefix | Course Number | Section | Course Title |
|-------------|---------------|---------------|---------|---------------------------|
| Spring 2008 | GEOL | 30123 | 020 | Dinosaurs and Their World |

| | | | | |
|-------------|------|-------|-----|-----------------------|
| Spring 2008 | GEOL | 30143 | 005 | Historical Geology II |
| Spring 2008 | GEOL | 30143 | 105 | Historical Geology II |

Fall 2007

| Semester | Course Prefix | Course Number | Section | Course Title |
|-----------|---------------|---------------|---------|---|
| Fall 2007 | GEOL | 30133 | 030 | Historical Geology I |
| Fall 2007 | GEOL | 30133 | 130 | Historical Geology I |
| Fall 2007 | GEOL | 40970 | 702 | Special Problems: Palaeontology |
| Fall 2007 | GEOL | 50901 | 005 | Computer Applications in Geology |
| Fall 2007 | GEOL | 50912 | 005 | Statistical Applications for Microcomputers |
| Fall 2007 | GEOL | 60710 | 035 | Geology Seminar |

Teaching: New Courses Developed / New Instructional Strategies

GEOL 40313 - Invertebrate Paleontology, Two hours lecture and one three hour laboratory period per week. Major groups of invertebrate fossils, their morphology, classification, paleoecology, geologic distribution and phylogeny. Field trips required. course had not been taught in over 10 years so had to develop almost from anew., Spring 2018, Ongoing

GEOL 30573 - Stratigraphy, Course had not been taught in over 10 years so had to a build from the ground up., Spring 2017, Winter 2020

Teaching: Mentoring/Advising Undergraduate Research and Creative Activities

Austin Lewis, EARLY PERMIAN CIRCULAR THROMBOLITES IN THE GOULDBUSK LIMESTONE MEMBER OF THE MORAN FORMATION, BURKETT, TEXAS, Fall 2014, Spring 2015

Marlee Cloos, ADDITIONAL CRANIAL MATERIAL OF THE JURASSIC BASAL GONIOPHOLID CROCODYLIFORM, CALSOYASUCHUS VALLICEPS, Fall 2014, Spring 2015

Teaching: Graduate Theses, Dissertations, Projects

Bryanna West, Campanian and Masstrichtian Ankylosaurs of West Texas, Fall 2019, Fall 2020

Kristin DeBone, Paleocene maar/tuff ring complex in Big Bend National Park, Texas, Fall 2019, Winter 2020

Sierra Ohrmundt, Eruptive styles, magma plumbing systems, and magma/sediment interaction in a 1.2 Ga calc-alkaline to shoshonitic volcanic arc setting in SW Namibia, Fall 2019, Spring 2020

Clayton Freimuth, Determining Leeb Hardness and its Controlling Factors to Assess the Strength of Sedimentary Rocks, Fall 2019, Ongoing

Andrew Hudgens, Spatial variation of sediment sources and its implications: U-Pb detrital zircon core-rim age analyses of the Mississippian Stanley Group in the Ouachita Mountains, Spring 2019, Ongoing

Daniel Cepeda, MS - Detrital Zircon Study of the Aguja Formation in Big Bend National Park, University of Texas at Arlington, Fall 2017, Fall 2018

Katelyn Lehman, Exploring the Geochemical Evolution of Magmatic Sources in Relation to Tectonic Setting in the Mesoproterozoic Konkiep Terrane in the Namaqua-Natal Orogen, SW Namibia. , Spring 2017, Fall 2019

Robert White, STRATIGRAPHY OF THE ERNST MEMBER OF THE UPPER CRETACEOUS BOQUILLAS FORMATION, BLACK GAP WILDLIFE MANAGEMENT AREA, BREWSTER COUNTY, TEXAS, Spring 2017, Fall 2019

Chris Garza, GEOLOGIC ANALYSIS AND GEOSTATISTICAL MODELING OF THE AVALON SHALE (BONE SPRING FORMATION), DELAWARE BASIN, WEST TEXAS AND SOUTHEAST NEW MEXICO, Fall 2016, Fall 2018

Jonathan Nay, Geology, Spring 2015, Fall 2015

Joseph Boro, Geology, Spring 2015, Fall 2015

Chelsea Toews, Geology, Spring 2015, Fall 2015

Michael Eldridge, Geology, Spring 2014, Fall 2014

Grant Blair, Geology, Spring 2014, Fall 2014

Rene Finical, Geology, Spring 2014, Fall 2014

Sarah Garcia, Geology, Spring 2014, Fall 2014
Galen Hulen, Geology, Spring 2014, Fall 2014
Jenny Hill, Geology, Spring 2014, Fall 2014
Tyler Hair, Geology, Spring 2014, Fall 2014
Steve Nold, Geology, Spring 2012, Fall 2012
Amy Eschberger, Geology, Spring 2012, Fall 2012
Ashley Adams, STRATIGRAPHY AND PALEONTOLOGY OF UPPER CRETACEOUS
TO PALEOCENE STRATA ON THE WESTERN ROSILLOS MOUNTAIN RANCH, BREWSTER COUNTY, TEXAS, Spring
2012, Spring 2014
Dier Hammad, Environmental Science, Spring 2012, Fall 2012
Derek Main, Geology, University of Texas at Arlington, Spring 2012, Fall 2012

Research and Creative Activity

Book

Completed/Published

- Lehman, T. M., & Busbey, A. B. (2007). *Society of Vertebrate Paleontology, fall 2007 Big Bend field trip, field guide* (p. 69). Society of Vertebrate Paleontology, Austin, TX.
- Busbey, A., Coenraads, R. R., Roots, D., & Willis, P. (1996). *Rocks & fossils* (p. 288). Time-Life Books.
- Busbey, A. B., & Thomason, J. J. (1995). *The structural consequences of skull flattening in crocodylians*. Cambridge University Press, Cambridge.
- Wilson, J. A., Busbey, A., & Lehman, T. M. (1989). *Vertebrate paleontology, biostratigraphy and depositional environments, latest Cretaceous and Tertiary, Big Bend area, Texas* (p. 90). Society of Vertebrate Paleontology.
- Lehman, T. M., Wilson, J. A., & Busbey, A. (1989). *Rattlesnake Mountain*. Society of Vertebrate Paleontology.
- Wilson, J. A., Busbey, A., & Lehman, T. M. (1989). *General geography and geologic setting of the Trans-Pecos region*. Society of Vertebrate Paleontology.
- Lehman, T. M., & Wilson, J. A. (1989). *Hot Springs*. Society of Vertebrate Paleontology, Austin, TX.
- Lehman, T. M., & Wilson, J. A. (1989). *San Vicente*. Society of Vertebrate Paleontology, Austin, TX.
- Davies, K. L., Lehman, T. M., & Wilson, J. A. (1989). *The WPA quarries*. Society of Vertebrate Paleontology, Austin, TX.
- Busbey, A., & Wilson, J. A. (1989). *Tornillo Flat*. Society of Vertebrate Paleontology, Austin, TX.
- Wilson, J. A. (1989). *General geography and geologic setting of the Trans-Pecos region*. Society of Vertebrate Paleontology, Austin, TX.
- Lehman, T. M., & Wilson, J. A. (1989). *Road log from Austin to Terlingua, Texas*. Society of Vertebrate Paleontology, Austin, TX.
- Langston Jr, W., Standhardt, B., Stevens, M. S., & Wilson, J. A. (1989). *Fossil vertebrate collecting in the Big Bend; history and retrospective*. Society of Vertebrate Paleontology, Austin, TX.
- Lehman, T. M., & Wilson, J. A. (1989). *Overview of Late Cretaceous sedimentation in Trans-Pecos Texas*. Society of Vertebrate Paleontology, Austin, TX.
- Busbey, A., & Wilson, J. A. (1989). *Santa Elena Canyon* (p. 27). Society of Vertebrate Paleontology, Austin, TX.
- Standhardt, B. R., & Wilson, J. A. (1989). *Dawson Creek; Late Cretaceous and Paleocene vertebrates of Big Bend National Park*. Society of Vertebrate Paleontology, Austin, TX.
- Lehman, T. M., & Wilson, J. A. (1989). *Dawson Creek; another view*. Society of Vertebrate Paleontology, Austin, TX.
- Schiebout, J. A., & Wilson, J. A. (1989). *The Paleocene rocks of Tornillo Flat, Big Bend National Park, Texas; evolving views*. Society of Vertebrate Paleontology, Austin, TX.
- Stevens, M. S., Stevens, J. B., & Wilson, J. A. (1989). *Neogene-Quaternary deposits and vertebrate faunas, Trans-Pecos Texas*. Society of Vertebrate Paleontology, Austin, TX.
- Busbey, A., Lehman, T. M., & Wilson, J. A. (1989). *References for Cretaceous*. Society of Vertebrate Paleontology, Austin, TX.
- Wilson, J. A., Runkel, A. C., Busbey, A., & Lehman, T. M. (1989). *Field guide to the Paleogene stratigraphy and vertebrate paleontology of the Big Bend region*. Society of Vertebrate Paleontology.

Journal Article

- Wang, R., Shi, W., Xie, X., Zhang, X., Wang, L., Manger, W., & Busbey, A. B. (2020). Coupling of strike-slip faulting and lacustrine basin evolution: sequence stratigraphy, structure, and sedimentation in the North Yellow Sea Basin (West Bay Basin offshore North Korea), eastern China. *Marine and Petroleum Geology*, 120.
- Wang, R., Wanzhong, S., Xie, X., Zhang, W., Shuo, Q., Liu, K., & Busbey, A. B. (2020). Clay mineral content, type, and their effects on pore throat structure and reservoir properties; insight from the Permian tight sandstones in the Hangjinqi area, north Ordos Basin, China. *Marine and Petroleum Geology*, 115.
- West, B., Busbey, A., & Anonymous. (2020). Campanian-Maastrichtian ankylosaurs of West Texas. *Abstracts with Programs - Geological Society of America*, 52(1), Abstract no. 10.
- Geo, J., Jiang, Z., Xie, X., Liang, C., Wang, C., Busbey III, A. B., ... Meng, J. (2020). Deep-lacustrine sediment gravity flow channel-lobe complexes on a stepped slope: An example from the Chengbei Low Uplift, Bohai Bay Basin, East China. *Marine and Petroleum Geology*, 124, 104839.
- Xie, X., Anthony, J. M., & Busbey, A. B. (2019). Provenance of Permian Delaware Mountain Group, central and southern Delaware Basin, and implications of sediment dispersal pathway near the southwestern terminus of Pangea. *International Geology Review*, 61(4), 361.
- Cheng, C., Li, S., Xie, X., Cao, T., Manger, W. L., & Busbey, A. B. (2019). Permian carbon isotope and clay mineral records from the Xikou section, Zhen'an, Shaanxi Province, central China; climatological implications for the easternmost Paleo-Tethys. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 514, 407.
- Cheng, C., Li, S., Xie, X., Manger, W. L., & Busbey, A. A. (2019). U-Pb detrital zircon geochronology and Hf isotopic composition of Permian clastic rocks, Zhen'an basin, South Qinling belt; implications for the Paleozoic tectonic evolution of the Qinling orogenic belt. *International Geology Review*, 61(11-12), 1462.
- Wang, R., Shi, W., Xie, X., Tang, D., Manger, W., Busbey, A. B., & Xu, L. (2018). Boundary fault linkage and its effect on Upper Jurassic to Lower Cretaceous sedimentation in the Gudian half-graben, Songliao Basin, northeastern China. *Marine and Petroleum Geology*, 98, 33.
- Xu, Q., Shi, W., Xie, X., Busbey, A. B., Xu, L., Wu, R., & Liu, K. (2018). Inversion and propagation of the Late Paleozoic Porjianghaizi fault (North Ordos Basin, China): Controls on sedimentation and gas accumulations. *Marine and Petroleum Geology*, 91, 706.
- Busbey, A. B., Cheng, C., Li, S., Xie, X., Cao, T., & Manger, W. L. (2018). Permian carbon cycle and climatology in easternmost Paleo-Tethys: complete carbon isotopic records from Xikou section, Zhen'an, central China. *Sedimentary Geology*.
- Busbey, A. B., Xie, X., & Anthony, J. M. (2018). Provenance of Permian Delaware Mountain Group, central and southern Delaware Basin, and implications of sediment dispersal pathway near the southwestern terminus of Pangea. *International Geology Review*.
- Busbey, A. B., Lu, X., Xie, X., Zhang, S., Zhang, S., Du, S., ... Shi, J. (2017). U-Pb Detrital Zircon Geochronology of Late Triassic to Early Jurassic Sandstones in the Northwestern Junggar Basin and its Implications. *Journal of Geology and Geophysics*, 7(320).
- Wang, R., Wanzhong, S., Xie, X., Liaoliang, W., Manger, W., Busbey, A. B., & Xu, Q. (2017). Lower Cretaceous lacustrine successions, North Yellow Sea Basin, eastern China; rift basin sequence stratigraphy and stacking patterns in response to magmatic activity. *Marine and Petroleum Geology*, 88, 531.
- Wang, R., Wanzhong, S., Xie, X., Liaoliang, W., Busbey, A. B., Manger, W., & Zhimin, X. (2017). Hydrothermal indications of Early Cretaceous red beds in lacustrine successions, north Yellow Sea basin, eastern China. *Marine and Petroleum Geology*, 88, 739.
- Wang, R., Shi, W., Xie, X., Wang, L., Manger, W., Busbey, A. B., & Xu, Q. (2017). Lower Cretaceous lacustrine successions, North Yellow Sea Basin, eastern China: Rift basin sequence stratigraphy and stacking patterns in response to magmatic activity. *Marine and Petroleum Geology*, 88, 531 – 550.
- Busbey, A., & Anonymous. (2017). iPad mapping applications; evaluation and workflow. *Abstracts with Programs - Geological Society of America*, 49(1), Abstract no. 28.
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Other Contributions

Completed/Published

- Busbey, A. (n.d.). Functional morphology of the head of *Pristichampsus vorax* (Crocodylia, Eusuchia) from the Eocene of North America.
- Busbey, A. B. (2015). A CAMPANIAN-AGED LACUSTRINE DEPOSIT ON A VOLCANIC MAAR IN THE AGUJA FORMATION, BREWSTER COUNTY, TEXAS. *Society of Vertebrate Paleontology Annual Meeting Abstracts 2015*, P. 101.

Grants and Contracts

Completed

External

- NASA Data for Geologic Mapping, NASA 1991-01-01 \$3,960.00, Completed, Spring 1991, CoPI Arthur Busbey with CoPI Ken Morgan
- Satellite Image Processing, ERDAS, Inc. 1991-01-01 \$36,250.00, Completed, Spring 1991, CoPI Arthur Busbey with CoPI Ken Morgan

Submitted for Review

External

- Landsat for Land Use Mapping, Texas Institute for Applied Research 1991-01-01 \$30,010.00, Submitted for Review, Spring 1991, PI Arthur Busbey with CoPI Ken Morgan [Funding Entity: State] [Type of Grant: Research]

Service: Institutional Committees

University

Faculty Senate, Texas Christian University, Fall 2018, Ongoing
Faculty180 Software Committee(s), Texas Christian University, Spring 2017, Ongoing
Dean Search Committee - Admissions Dean, Texas Christian University, Spring 2017, Spring 2017
Faculty Senate: Faculty Senate Executive Committee, Texas Christian University, Fall 2014, Spring 2017
Faculty Senate, Texas Christian University, Fall 2013, Spring 2017
IT Software Evaluation Ad-Hoc Committee, Texas Christian University, Spring 2010, Ongoing

College/School

CSE Web Committee, College of Science & Engineering, Spring 2017, Ongoing
College Curriculum Committee, College of Science & Engineering, Spring 2012, Fall 2015

Service: Institutional Service**University**

TCU Administrative Council, Texas Christian University, Fall 2014, Spring 2017
Coleman Senior Fellows Program, Texas Christian University, Spring 2013, Fall 2015

College/School

Maintained and updated Monnig Collection database server, College of Science & Engineering, Spring 2017, Ongoing

Department

Chair, Department of Geological Sciences, Geological Sciences, Fall 2018, Ongoing
Coordinated lunch Ehlmann Video Series, Texas Christian University, Spring 2016, Spring 2018
Geology Program Coordinator, School of Geology, Energy and the Environment, TCU, Geological Sciences, Spring 2010, Spring 2016
SGEE/GEOL Web Master, College of Science & Engineering, Spring 1995, Ongoing
Maintain departmental lab computers, Geological Sciences, Fall 1985, Ongoing

Service: Community Service**Additional Activities**

Talk, Arlington Gem and Mineral Society, Public talk on the Geologic History of Climate Change, Summer 2019, Summer 2019
Talks on fossils and geology for various Fort Worth groups, Includes FMSH, Perot Museum, etc., Spring 2012, Ongoing
SGEE Representative, Board for the Woodbine Dinosaur Track-way State Park, Spring 2012, Fall 2016

Service: Memberships in Professional Organizations

Paleontological Society, Spring 1974, Ongoing
Geological Society of America, Spring 1974, Ongoing
Society of Vertebrate Paleontology, Spring 1973, Ongoing