

MELINDA S. FAULKNER

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EDUCATION

- 2016 Ph.D., Forestry**, Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University, Nacogdoches, Texas.
Dissertation: An Investigation of Hydrogeologic, Stratigraphic, and Structural Controls on *Acer grandidentatum* Communities in a Karst Landscape, Owl Mountain Province, Fort Hood Military Installation, Texas. Advisor: Dr. Matthew McBroom. Concentration: karst, geochemistry, geomorphology, spatial analysis, relict vegetation
- 2006 Master of Science**, Geology, Stephen F. Austin State University, Nacogdoches, Texas.
Thesis: Geologic Control of Stream Water Composition in Cherokee, Smith and Rusk Counties, Texas. Advisor: Dr. Ernest Ledger.
- 2002 Bachelor of Science**, Geology with an emphasis in Environmental Geology, Minor in Chemistry, Stephen F. Austin State University, Nacogdoches, Texas.

EMPLOYMENT HISTORY

- 9/23 to Present **Associate Professor and Assistant to the Chair; Earth Sciences and Geologic Resources, Stephen F. Austin State University, Nacogdoches, Texas.** Teach graduate and undergraduate courses, and mentor graduate and undergraduate research students, coordinate departmental assessment reports, organize summer field camp, serve as Undergraduate Research Coordinator for the College of Sciences and Mathematics, liaison for STEM III and STEM IV students at Lufkin and Nacogdoches High Schools.
- 9/16 – 8/23 **Assistant Professor and Assistant to the Chair; Geology Department, Stephen F. Austin State University, Nacogdoches, Texas.** Teach graduate and undergraduate courses, assist chair with administrative duties, write departmental assessment reports, coordinate summer field camp, and serve as the College of Sciences and Mathematics Coordinator for Undergraduate Research.
- 9/15 – 8/16 **Lecturer and Laboratory Coordinator and Assistant to the Chair of the Geology Department, Stephen F. Austin State University, Nacogdoches, Texas.** In addition to lecturer and laboratory coordinator position, assist chair with assessment and administrative duties.
- 09/10 – 8/15 **Lecturer and Laboratory Coordinator, Stephen F. Austin State University, Department of Geology, Nacogdoches, Texas.** Organization and scheduling of introductory laboratories; training and supervision of graduate teaching

assistants; responsible for the development of new laboratory manuals and all core curriculum materials to align with new University core requirements.

- 01/05 – 08/10 **Adjunct Faculty, Stephen F. Austin State University, Department of Geology, Nacogdoches, Texas.**
- 06/02 – 12/04 **Graduate Teaching Assistant, Stephen F. Austin State University, Department of Geology, Nacogdoches, Texas.**
- 01/02 – 05/02 **Teaching Assistant, Stephen F. Austin State University, Department of Geology, Nacogdoches, Texas.**
- 01/01 – 05/02 **Tutoring Services with Academic Assistance and Resource Center (AARC), Stephen F. Austin State University, Steen Library, Nacogdoches, Texas.**
Tutored lecture and laboratory students in introductory physical geology, historical geology and structural geology.
- 01/01 – 05/02 **Laboratory Assistant, Department of Chemistry, Stephen F. Austin State University, Nacogdoches, Texas.** Assisted laboratory students in general chemistry.
- 06/84 – 12/14 **Bookkeeper and Administrative Assistant, Parker Investments, Houston, Texas.** Prepared and maintained accounting data for a successful consulting service company and various participating entities.

TEACHING EXPERIENCE

2002 – Present: Department of Earth Sciences and Geologic Resources

- Arkansas Field Trip – instructor for field class (undergraduate course)
- Aqueous Geochemistry – instructor (graduate and undergraduate course)
- Earth Resources – instructor (undergraduate course)
- Earth Science Activities –online instructor for lecture and laboratory (undergraduate course)
- Environmental Geology – online instructor (undergraduate course)
- Exploration of Ore Resources – instructor (graduate course)
- Field Geology – instructor for field course (undergraduate course)
- Field Methods – instructor (undergraduate course)
- Fundamentals of Earth Science – online instructor for lecture and laboratory (undergraduate core curriculum course)
- Geocharacterization of Natural Resources – instructor (graduate and undergraduate course)
- Geochemistry – online instructor for lecture and laboratory (undergraduate course)
- Geochemistry of the Southwest – instructor for field course (undergraduate course)
- Geochemical Environments – online instructor for lecture (graduate course)
- Hill Country Field Trip – instructor for field class (undergraduate course)
- Historical Geology – lecture instructor (undergraduate core curriculum course)
- Introductory Geology – lecture instructor (undergraduate core curriculum course)
- Nacogdoches Field Trip – instructor for field course (undergraduate course)
- Petrology Laboratory – instructor (undergraduate course)

- Research Methods – instructor (graduate course)
- Spatial and Field Geology – online instructor (undergraduate course)
- Stratigraphy Laboratory – instructor (undergraduate course)
- Structural Geology – instructor for lecture and laboratory (undergraduate course)
- Structural Geology Laboratory – instructor (undergraduate course)
- The Earth Through Time – lecture and laboratory instructor (undergraduate core curriculum course)

PROFESSIONAL DEVELOPMENT AND SERVICE

Professional Affiliations

- Alpha Chi National Honor Society
- American Association of Petroleum Geologists (AAPG)
- Association of Environmental and Engineering Geologists (AEG)
- East Texas Geological Society (ETGS)
- Geological Society of America (GSA)
- Gulf Coast Association of Geological Societies (GCAGS)
- Honor Students Association, Stephen F. Austin State University
- National Association of Geoscience Teachers (NAGT)
- Shreveport Geological Society (SGS)
- Sigma Gamma Epsilon (SGE) National Honorary Society in the Earth Sciences
- Society of Applied Geoscience and Engineering (SAGE)
- South Texas Geological Society (STGS)
- Texas Academy of Science (TAS)

Professional Conferences and Workshops

- Carbon Capture Technology Expo, Houston, Texas (June, 2023)
- GeoGulf 2023, Houston, Texas (April, 2023)
- East Texas Oil & Gas Expo, East Texas Geological Society, Tyler, TX (March 2023)
- Texas Academy of Science, Angelo State University, San Angelo, Texas (March, 2023)
- Annual Meeting of the Geological Society of America, Denver, Colorado (October 2022)
- Undergraduate Research Conference, Stephen F. Austin State University, Nacogdoches, Texas (April 2022)
- East Texas Oil & Gas Expo, East Texas Geological Society, Tyler, TX (March 2022)
- Society of Applied Geoscientists and Engineers, Petroleum Club of Lafayette, Lafayette, LA (March 2022)
- Northeast Texas Energy Summit, East Texas Geological Society, Tyler, TX (March 2022)
- Texas Academy of Science, University of Houston Clear Lake, Clear Lake, TX (February 2022)
- Undergraduate Research Conference, Stephen F. Austin State University, Nacogdoches, Texas (April 2021)
- GeoGulf 2020, Lafayette, Louisiana (September 2020)
- Undergraduate Research Conference, Stephen F. Austin State University, Nacogdoches, Texas (April 2020)
- South-Central Geologic Society of America, Fort Worth, Texas (March 2020)
- Gulf Coast Association of Geological Societies, Houston, Texas (October 2019)
- South-Central Geologic Society of America, Manhattan, Kansas (March 2019)

- Gulf Coast Association of Geological Societies, Shreveport, Louisiana (October 2018)
- Graduate Research Conference, Stephen F. Austin State University, Nacogdoches, Texas (April 2018)
- Southeast Oil & Gas Expo, East Texas Geological Society, Tyler, Texas (April 2018)
- South-Central Geologic Society of America, Little Rock, Arkansas (March 2018)
- Graduate Research Conference, Stephen F. Austin State University, Nacogdoches, Texas (April 2017)
- Southeast Oil & Gas Expo, East Texas Geological Society, Tyler, Texas (April 2017)
- South-Central Geologic Society of America, San Antonio, Texas (March 2017)
- Texas Academy of Science Annual Meeting, Belton, Texas (March 2017)
- Texas Water Development Board, Water for Texas Conference, Austin, Texas (January 2017)
- Association of Environmental and Engineering Geologists Spring Meeting, Nacogdoches, Texas (January 2017)
- Gulf Coast Association of Geological Societies, Corpus Christi, Texas (September 2016)
- Deep Karst 2016 National Cave and Karst Institute, Carlsbad, New Mexico (April 2016)
- Southeast Oil & Gas Expo, East Texas Geological Society, Tyler, Texas (March 2016)
- South-Central Geologic Society of America, Baton Rouge, Louisiana (March 2016)
- Gulf Coast Association of Geological Societies, Houston, Texas (September 2015)
- Association of Environmental and Engineering Geologists Spring Meeting, San Antonio, Texas (April 2015)
- Southeast Oil & Gas Expo, East Texas Geological Society, Tyler, Texas (April 2015)
- Texas Academy of Science Annual Meeting, San Antonio, Texas (March 2015)
- South-Central Geologic Society of America, Stillwater, Oklahoma (March 2015)
- National Association of Petroleum Exploration, Houston, Texas (February 2015)
- Wilderness First Aid Training, National Outdoor Leadership Organization, Austin, Texas (May 2014)
- Association of Environmental and Engineering Geologists Spring Meeting, Austin, Texas (April 2014)
- Southeast Oil & Gas Expo, East Texas Geological Society, Tyler, Texas (April 2014)
- Karst Interest Group – Hydrodays, U.S. Geological Survey, Fayetteville, Arkansas (March 2014)
- Texas Academy of Science Annual Meeting, Galveston, Texas (March 2014)
- South-Central Geologic Society of America, Fayetteville, Arkansas (March 2014)
- National Association of Petroleum Exploration, Houston, Texas (February 2014)
- 13th International Sinkhole Conference, National Cave and Karst Institute, Carlsbad, New Mexico (May 2013)
- Southeast Oil & Gas Expo, East Texas Geological Society, Tyler, Texas (April 2013)
- Association of Environmental and Engineering Geologists Spring Meeting, Austin, Texas (February 2013)
- South-Central Geologic Society of America, Alpine, Texas (March 2013)
- Texas Academy of Science Annual Meeting, Kerrville, Texas (March 2013)
- National Association of Petroleum Exploration, Houston, Texas (February 2013)
- South-Central Geologic Society of America, Austin, Texas (April 2013)
- Karst Interest Group – Hydrodays, U.S. Geological Survey, Fayetteville, Arkansas (April 2011)
- South-Central Geologic Society of America, New Orleans, Louisiana (March 2011)
- South-Central Geologic Society of America, Branson, Missouri (April 2010)

- Texas Academy of Science Annual Meeting, Junction, Texas (March 2009)
- Blogging 101, Teaching Excellence Center, Nacogdoches, TX. (June 2008)
- Grade Book, Office of Instructional Technology, Nacogdoches, Texas. (August 2007)
- Intro/FITS, Office of Instructional Technology, Nacogdoches, Texas. (August 2007)
- Manage Content," Office of Instructional Technology, Nacogdoches, Texas. (August 2007)

RESEARCH GRANTS

- 2023: Summer Undergraduate Research Experience (\$2,800)** – A Walk Through Geologic Time: The SFA Rock Garden; funded as principal investigator by the SFA College of Sciences and Mathematics
- 2023: Luminant Environmental Research Fellowship (\$101,073):** Microbial Sulfate Reduction for Improved Effluent Quality at the Martin Lake A-I Disposal Area (awarded June 1, 2023)
- 2022: MRI NSF EAR Funding Opportunity Number 22-577 (\$330,000):** Acquisition of a HAWK v2 workstation source rock analyzer from Wildcat Technologies for enhancement of undergraduate teaching and research (in review).
- 2022: Summer Undergraduate Research Experience (\$2,300)** – Geologic and Geomorphological Characteristics of the Mare Oriental Impact Basin on Earth's Moon; funded as principal investigator by the SFA College of Sciences and Mathematics
- 2022: Geological Society of America (\$10,000)** – Field Camp Excellence Award from Exxon Mobil to help increase the use of technology in field research (not funded).
- 2021: Summer Undergraduate Research Experience (\$2,300)** – The Depositional Environments of the Claron Formation in southern Utah; funded as principal investigator by the SFA College of Sciences and Mathematics
- 2021: ORSP Research Pilot Studies Grant (\$1,899.83)** – Assessment of Sevier deformation in the Navajo Sandstone and Iron Springs Formation using an Unmanned Aerial System, Parowan Gap area, Utah (not funded).
- 2020: Summer Undergraduate Research Experience (\$2,300)** – Geochemical Analyses Across the Boundary of the Jurassic Louann Salt and Norphlet Formation, Gulf of Mexico, USA; funded as principal investigator by the SFA College of Sciences and Mathematics
- 2019: Summer Undergraduate Research Experience (\$2,300)** – Geochemical Analyses of Base Metals in Sediments and Stream Water, Black Cypress Bayou, Marion County, Texas; funded as principal investigator by the SFA College of Sciences and Mathematics
- 2018: Summer Undergraduate Research Experience (\$2,300)** – Preliminary Investigation of Geologic Structures in the Owl Mountain Province, Fort Hood Military Installation, Texas; funded as principal investigator by the SFA College of Sciences and Mathematics
- 2017: Faculty –Student Collaborative Research Program (\$22,500)** – Geologic Control of Mercury Transport in Big Cypress Bayou, Caddo Lake Watershed, Harrison and Marion Counties, Texas; funded as principal investigator by the Office of Sponsored Research and Programs at SFA
- 2016: Faculty –Student Collaborative Research Program (\$21,500)** – Geologic Control of Mercury Transport in Big Cypress Bayou, Caddo Lake Watershed, Harrison and Marion Counties, Texas; funded as principal investigator by the Office of Sponsored Research and Programs at SFA
- 2016: Faculty Project Support Mini-Grant (\$1,359)** – Geologic Control on Stream Water Chemistry in the Caddo Lake Watershed, Harrison County, Texas (not funded)
- 2014: Texas Academy of Science Research Proposal (\$1,500)** – Paleo-stratigraphic bio-and-litho-facies of the Owl Mountain Province, Fort Hood Military Installation, Texas; funded as principal investigator by Texas Academy of Science Research Fellows

CURRENT GRADUATE RESEARCH

- Brillon, Jacob A.** (December 2022) – *Dolomitization of the Edwards Group in Western Fort Hood, Fort Hood Military Installation, Texas*
- Cook, Alex D.** (December 2022) – *Comparative LiDAR Analyses of the Impact Range, Fort Hood Military Installation, Texas*
- Ertons, Melanie** (May 2024) – *Geochemical Analyses of Bauxite Tailings and Reclaimed Lands in Pulaski and Saline Counties, Central Arkansas*
- Moore, Jacob** (December 2023) – *Preliminary facies analyses in western Fort Hood using XRF technology*
- Rambo, Amy** (December 2024) – *Geochemical assessment of coal ash and sediments at the Martin Lake Ash Disposal Area*
- Robertson, Shelby M.** (December 2023) – *Microfacies Analyses of the Owl Mountain Region using Artificial Intelligence (AI), Fort Hood Military Installation, Texas*
- Shea, Ryka** (December 2024) – *Geochemical Characterization of surface water at the Martin Lake Ash Disposal Area*
- Whitenburg, Luke** (December 2023) – *Developing Accurate Economic Models in Texas Aggregate Mines using Remote Technology*
- Willis, Jennifer** (December 2022) – *InSAR modeling of production/activity change over time in the Oil Sands of the Northern Alberta region*

COMPLETED THESES

- Dailey, Heather J. (May 2020)** – *Delineation and Classification of Karst Depressions using LiDAR: Fort Hood Military Installation, Texas*
- Ford, Merritt (May 2022)** – *Facies and Well Log Analysis of the Smackover Formation in Wood County, Northeast Texas*
- Lesh, Brian (August 2022)** – *Geochemical and Well Log Analyses of the Louann Salt, Puma-5 Well, Block 821, Puma Field, Green Canyon Protraction Area, Gulf of Mexico Basin*
- Meinerts, Jacob A. (December 2018)** – *Depositional Environment and Facies Analyses of the Owl Mountain Province in Fort Hood Military Installation, Bell and Coryell Counties, Texas*
- Reece, Colby B. (December 2018)** – *Delineation of Karst Potential Using LiDAR and GIS Analyses, Fort Hood Military Installation, Coryell County, Texas*
- Robison, Annie P. (May 2020)** – *Modeling Subsurface Karst Potential using Electrical Resistivity in the Shell Mountain Region, Fort Hood Military Installation, Texas*
- Scarborough, Jordan A. (December 2023)** – *Natural Source Demonstration for the Queen City Formation of East Texas*
- Watkins, Joseph D. (December 2018)** - *Mercury in Big Cypress Bayou and Caddo Lake Watersheds in Harrison and Marion Counties, Texas*

PUBLICATIONS

2022

Faulkner, Melinda S., Robison, Annie P., and Reece, Colby B. "Landscape Evolution in Western Fort Hood: LiDAR and Electrical Resistivity Studies" (*in preparation*)

Dailey, Heather J., and **Faulkner, Melinda S.** "Delineation and Classification of Karst Depressions using LiDAR: Fort Hood Military Installation, Texas" (*in preparation*)

2020

Faulkner, Melinda S., McBroom, M., and Farrish, K. "Spatial Delineation of *Acer grandidentatum* within the Owl and Bear Creek Watersheds, Fort Hood Military Installation, Texas" *publication date* December 23, 2020

Faulkner, Melinda S., Ertons, Melanie L., and Watkins, Joseph D. "Geochemical Characterization of Base Metals in Stream Water and Sediments in the Caddo Lake Watershed, Cass, Harrison and Marion Counties, Texas" Vol 9, No. 9 *publication date* September 8, 2020

Nielson, R. LaRell, Read, Mike T., **Faulkner, Melinda S.**, Chambers, Hannah C., O'Neall, Jessica "Geology of Nacogdoches, Texas: Texas Academy of Science Field Trip" *publication date* March 1, 2020

2019

Faulkner, Melinda S., Farrish, K. and McBroom, M. "Structural control of mesic vegetation communities within the Owl and Bear Creek watersheds, Bell and Coryell counties, Texas" *Journal of Geography and Earth Science*, Vol 7, No. 1, *publication date* March 31, 2019

Meinerts, Jacob A., **Faulkner, Melinda S.** and Stafford, Kevin W. "Depositional Environment and Facies Analyses of the Owl Mountain Province, Fort Hood Military Installation, Bell and Coryell Counties, Texas" *South Texas Geological Society Bulletin*, *publication date* April 1, 2019

2018

Faulkner, Melinda S. and Bryant, Aaron W. (June 2018) "*Hypogene Karst of the Lampasas Cut Plain*" p. 86-98, in *Hypogene Karst of Texas: TSS Monograph 3: Austin, Texas*, Texas Speleological Survey, 122 p., Stafford, K. W. and Veni, G., editors.

Faulkner, Melinda S., Farrish, K. Stafford, K. and McBroom, M. (January 2018) "The Hydromorphic Evolution of the Owl Mountain and Nolan Creek Provinces, Fort Hood Military Installation, Bell and Coryell counties, Texas" *South Texas Geological Society Bulletin*, Volume 58, Issue No. 6, p. 32-48, San Antonio, TX

2017

Faulkner, Melinda S. (January 2017) "Dynamic Earth: Plate Tectonics and Natural Resources: An Earth Science Workbook for Region 8" Region 8 Educational Service Center, Mt. Pleasant, Texas, 44 p.

2016

Faulkner, Melinda S. (July 2016) "Dynamic Earth: Plate Tectonics and Natural Resources: Teacher Resources for Region 7" Region 7 Educational Service Center Summer Institute, Kilgore, Texas, 73 p.

Faulkner, Melinda S. (June 2016) "Incorporating Earth Science into the Middle School Classroom: Resources for Teachers" North Central Texas College, Gainesville, Texas, 116 p.

2015

Faulkner, Melinda S. (August 2015) "Incorporating Earth Science into the Middle School Classroom: Resources for Teachers" Austin Community College, Alternative Certification for STEM Educators, Austin, Texas; 100 p.

Faulkner, Melinda S. (July 2015) "Incorporating Earth Science into the Middle School Classroom: Resources for Teachers" Region 7 Educational Service Center Summer Institute, Kilgore, Texas, 196 p.

Faulkner, Melinda S. (January 2015) "The Earth Through Time Laboratory Manual" Department of Geology, Stephen F. Austin State University, Nacogdoches, Texas, 223 p.

2014

Faulkner, Melinda S. (August 2014) "Fundamentals of Earth Science Laboratory Manual" Department of Geology, Stephen F. Austin State University, Nacogdoches, Texas, 193 p.

Faulkner, Melinda S. (August 2014) "Introductory Geology Laboratory Manual" Department of Geology, Stephen F. Austin State University, Nacogdoches, Texas, 189 p.

2013

Shaw Faulkner, M., Stafford, K., and Bryant, A. (May 2013). "Delineation and classification of karst depressions using LiDAR: Fort Hood Military Installation, Texas". Paper and Presentation, 13th International Sinkhole Conference, Carlsbad, New Mexico – published in proceedings.

Stafford, K., **Shaw Faulkner, M.**, and Bryant, A. (May 2013). "Clastic sinkhole and pseudokarst development in East Texas". Paper and Presentation, 13th International Sinkhole Conference, Carlsbad, New Mexico – published in proceedings.

2011

Shaw Faulkner, M., and Stafford, K., (April 2011). "Surface denudation of the Gypsum Plain, West Texas and Southeastern New Mexico", Paper and Presentation, Karst in Geoscience – Hydrodays 2011, Fayetteville, Arkansas. Published in proceedings.

Stafford, K., and **Shaw Faulkner, M.**, (April 2011). "Spring hydrology of Colorado Bend State Park, central Texas", Paper and Presentation, Karst in Geoscience – Hydrodays 2011, Fayetteville, Arkansas. Published in proceedings.

2010

Brown, W.A., Stafford, K., **Shaw Faulkner, M.** and Grubbs, A. (April, 2010). "A Comparative Integrated Geophysical Study of Horse Shoe Chimney Cave, Colorado Bend State Park, Texas". Paper – *International Journal of Speleology*

INVITED TALKS AND WORKSHOPS2023

"Geochemical Characterization of Base Metals in Stream Water and Sediments in the Caddo Lake Watershed, Cass, Harrison and Marion Counties, Texas" Presentation to East Texas Geological Society (April 2023).

2022

"Geochemical Characterization of Base Metals in Stream Water and Sediments in the Caddo Lake Watershed, Cass, Harrison and Marion Counties, Texas" Presentation to Houston Geological Society Environmental and Engineering Group (April 2022).

2020

"Geoscience Career Workshop Part 1: Career Planning and Networking" Panel Member in the Roy J. Shlemon Mentors Program in Applied Geoscience, South-Central Geological Society of America Section Meeting (March 2020)

2017

"Dynamic Earth: Plate Tectonics and Natural Resources: An Earth Science Workbook for Region 8" Region 8 Educational Service Center, Mt. Pleasant, Texas (January 2017).

2016

"Dynamic Earth: Plate Tectonics and Natural Resources: Teacher Resources for Region 7" Region 7 Educational Service Center Summer Institute, Kilgore, Texas (July 2016).

"Incorporating Earth Science into the Middle School Classroom: Resources for Teachers" North Central Texas College, Gainesville, Texas (June 2016).

2015

"Incorporating Earth Science into the Middle School Classroom: Resources for Teachers" Austin Community College, Alternative Certification for STEM Educators, Austin, Texas (August 2015).

"Incorporating Earth Science into the Middle School Classroom: Resources for Teachers" Region 7 Educational Service Center Summer Institute, Kilgore, Texas (July 2015).

CONFERENCE ABSTRACTS

2023

- Diehl, Jared; Shaw, Rick; and **Faulkner, Mindy S.** (March 2023) "Geochemistry of Claiborne Group Ironstone Deposits in East Texas" GeoGulf 2023, Houston, TX
- Ertons, Melanie L., and **Faulkner, Melinda S.** (April 2023) "Preliminary Investigation of Residual Mineral Content of Bauxite Piles, Saline Mining District, Arkansas" GeoGulf 2023, Houston, TX
- Whitenburg, Luke and **Faulkner, Melinda S.** (March 2023) "Geologic Face Mapping Methodology Utilizing Global Positioning Systems and Drone Technology" GeoGulf 2023, Houston, TX
- Diehl, Jared; Shaw, Rick; and **Faulkner, Mindy S.** (March 2023) "Geochemistry of Claiborne Group Ironstone Deposits in East Texas" 126th Annual Meeting of the Texas Academy of Science, San Angelo, TX
- Ertons, Melanie L., and **Faulkner, Melinda S.** (March 2023) "Preliminary Investigation of Residual Mineral Content of Bauxite Piles, Saline Mining District, Arkansas" 126th Annual Meeting of the Texas Academy of Science, San Angelo, TX
- Faulkner, Mindy S.**; Dailey, Heather J.; Winkleman, Annie Robison; and Reece, Colby B. (March 2023) "Landscape Evolution in Western Fort Hood Military Installation, Coryell County, Texas" 126th Annual Meeting of the Texas Academy of Science, San Angelo, TX
- Whitenburg, Luke and **Faulkner, Melinda S.** (March 2023) "Geologic Face Mapping Methodology Utilizing Global Positioning Systems and Drone Technology" 126th Annual Meeting of the Texas Academy of Science, San Angelo, TX

2022

- Ertons, Melanie, L., **Faulkner, Melinda S.**, and Watkins, Joseph W. (October 2022) "Geochemical Characterization of Base Metals in Stream Water and Sediments in the Caddo Lake Watershed, Cass, Harrison, and Marion Counties, Texas, Geological Society of America, Connects 2022, Denver, CO
- Gray, Kyla S. and **Faulkner, Melinda S.** (October 2022) "Geologic and Geomorphological Interpretation of the Mare Orientale Impact Basin Region of Earth's Moon" Geological Society of America, Connects 2022, Denver, CO
- Robertson, Shelby M. and **Faulkner, Melinda S.** (October 2022) "Using Advanced Rock Typing to Create Diagenetic Models in Carbonate Facies, Owl Mountain Province, Central Texas" Geological Society of America, Connects 2022, Denver, CO
- Gray, Kyla S. and **Faulkner, Melinda S.** (April 2022) "Geologic and Geomorphological Interpretation of the Mare Orientale Impact Basin Region of Earth's Moon" Undergraduate Research Conference, Stephen F. Austin State University, Nacogdoches, TX
- Faulkner, Melinda S.**, Ertons, Melanie L., and Watkins, Joseph W. (March 2022) "Geochemical Characterization of Base Metals in Stream Water and Sediments in the Caddo Lake Watershed, Cass, Harrison, and Marion Counties, Texas" Society of Applied Geoscientists and Engineers, Lafayette, LA
- Ford, Merritt S., **Faulkner, Melinda S.**, and Bloxson, Julie M. (March 2022) "Facies and Well Log Analysis of the Smackover Formation in the East Texas Basin, Wood County, Northeastern Texas" Society of Applied Geoscientists and Engineers, Lafayette, LA
- Gray, Kyla S. and **Faulkner, Melinda S.** (March 2022) "Geologic and Geomorphological Interpretation of the Mare Orientale Impact Basin Region of Earth's Moon" Society of Applied Geoscientists and Engineers, Lafayette, LA

- Lesh, Brian L., Bloxson, Julie M., **Faulkner, Melinda S.**, Cox, Christine Piela (March 2022) "Geochemical Characterization of the Louann Salt – Using XRF and XRD, Puma Field, Gulf of Mexico Basin" Society of Applied Geoscientists and Engineers, Lafayette, LA
- Gray, Kyla S. and **Faulkner, Melinda S.** (February 2022) "Geologic and Geomorphological Interpretation of the Mare Orientale Impact Basin Region of Earth's Moon" 125th Annual Meeting of the Texas Academy of Science, Clear Lake, TX

2021

- Amell, Joseph L., Henry, Andrew H., **Faulkner, Melinda S.**, and Bloxson, Julie M. (April 2021) "Geochemical Analyses Across the Upper and Lower Boundary of the Jurassic Louann Salt Formation, Gulf of Mexico, USA" Undergraduate Research Conference, Stephen F. Austin State University, Nacogdoches, TX
- Shaw, Rick and **Faulkner, Melinda S.** (August 2021) "Depositional Environments of the Claron Formation in southern Utah" Stephen F. Austin State University, Summer Undergraduate Research Experience, College of Sciences and Mathematics, Nacogdoches, Texas

2020

- Amell, Joseph L., **Faulkner, Melinda S.**, and Bloxson, Julie M. (September 2020) "Geochemical Analyses Across the Boundary of the Jurassic Louann Salt and Norphlet Formation, Gulf of Mexico, USA" GeoGulf 2020 Conference, Lafayette, LA
- Ford, Merritt S., **Faulkner, Melinda S.**, and Bloxson, Julie M. (September 2020) "Micro-anomalies in the Smackover Formation, Max J. Fletcher No. 3, Wood County, Texas" GeoGulf 2020 Conference, Lafayette, LA
- Lesh, Brian L., **Faulkner, Melinda S.**, and Bloxson, Julie M. (September 2020) "Geochemical and Well Log Analyses of the Louann Salt, Puma Field, GOMB" GeoGulf 2020 Conference, Lafayette, LA
- Ertons, Melanie L. and **Faulkner, Melinda S.** (April 2020) "Geochemical Analyses of Base Metals in Sediments and Stream Water, Black Cypress Bayou, Marion County, Texas" Undergraduate Research Conference, Stephen F. Austin State University, Nacogdoches, TX
- Faulkner, Melinda S.** and Stevens, Liane (March 2020) "Increasing student engagement through field-based learning – an update" South-Central Geological Society of America Conference, Fort Worth, TX
- Ertons, Melanie L., Dailey, Heather J. and **Faulkner, Melinda S.** (March 2020) "The role of root structures in Epikarst Processes, Fort Hood Military Installation, Texas" South-Central Geological Society of America Conference, Fort Worth, TX
- Robison, Annie P. and **Faulkner, Melinda S.** (March 2020) "Delineating Subsurface Karst Potential using Electrical Resistivity in the Shell Mountain Region, Fort Hood Military Installation, Texas" South-Central Geological Society of America Conference, Fort Worth, TX
- Dailey, Heather J. and **Faulkner, Melinda S.** (March 2020) "Karst Depression Characterization using LiDAR and Field Traverses: Fort Hood Military Installation, Texas" South-Central Geological Society of America Conference, Fort Worth, TX

2019

- Robison, Annie P. and **Faulkner, Melinda S.** (October 2019) "Delineating Subsurface Karst Potential Using Electrical Resistivity in the Shell Mountain Region, Fort Hood Military Installation, Texas"
- Brillon, Jacob A., Robison, Annie P. and **Faulkner, Melinda S.** (October 2019) "Classification and Delineation of Subsurface Karst Potential Using Electrical Resistivity in The Manning Mountain Region, Fort Hood Military Installation, Texas"
- Dailey, Heather J., Reece, Colby B., and **Faulkner, Melinda S.** (October 2019) "Refining Filtering Mechanisms used to Delineate Karst Depressions in Western Fort Hood, Coryell County, Texas"

- Ertons, Melanie L. and **Faulkner, Melinda S.** (August 2019) "Geochemical Analyses of Base Metals in Sediments and Stream Water, Black Cypress Bayou, Marion County, Texas" Stephen F. Austin State University, Summer Undergraduate Research Experience, College of Sciences and Mathematics, Nacogdoches, Texas
- Faulkner, Melinda S.** and Stafford, Kevin W. (March 2019) "Heavy Metal Concentrations in Big Cypress and Black Cypress Bayous, Caddo Lake Watershed, Texas." South Central Geological Society of America, Manhattan, Kansas
- Stevens, Liane M. and **Faulkner, Melinda S.** (March 2019) "Increasing Student Engagement and Recruitment through Modification and Adaptation of Traditional Service Field Trips." South Central Geological Society of America, Manhattan, Kansas
- Stafford, Kevin W. and **Faulkner, Melinda S.** (March 2019) "Geochemical Characterization of Sediment and Water Contributions to Lake Belton, Central Texas." South Central Geological Society of America, Manhattan, Kansas
- Sailor, Matthew and **Faulkner, Melinda S.** (March 2019) "Remote Sensing and Field Investigations of Geologic Structures in the Owl Mountain Province, Fort Hood Military Installation, Texas." South Central Geological Society of America, Manhattan, Kansas

2018

- Faulkner, Melinda S.** (October 2018) "Using Relict Vegetation Communities as a Proxy for Transmissivity in the Comanche Peak Formation, Owl and Bear Creek watersheds, Bell County, Texas. Gulf Coast Association of Geological Societies, Shreveport, Louisiana
- Henry, Kaleb J. and **Faulkner, Melinda S.** (October 2018) "Geochemical Analyses of Karst Springs within the Lampasas Cut Plain, Fort Hood Military Installation, Texas. Gulf Coast Association of Geological Societies, Shreveport, Louisiana
- Meinerts, Jacob A. and **Faulkner, Melinda S.** (October 2018) "Complex Reef Mound Environment on a Cretaceous Shelf: Facies Analyses and Depositional Environment of the Owl Mountain Province, Fort Hood Military Installation, Texas. Gulf Coast Association of Geological Societies, Shreveport, Louisiana
- Reece, Colby B. and **Faulkner, Melinda S.** (October 2018) "Using Electrical Resistivity Surveys to Determine Subsurface Connectivity in a Karst Terrain, Fort Hood Military Installation, Texas. Gulf Coast Association of Geological Societies, Shreveport, Louisiana
- Sailor, Matthew and **Faulkner, Melinda S.** (August 2018) "Preliminary Investigation of Geologic Structures in the Owl Mountain Province, Fort Hood Military Installation, Texas"; Stephen F. Austin State University, Summer Undergraduate Research Experience, College of Sciences and Mathematics, Nacogdoches, Texas
- Armstrong, Keely N., **Faulkner, Melinda S.**, and Beauregard, Matthew (April 2018) "Predicting Stratigraphic Outcrops using a LiDAR Digital Elevation Model in a Karst Landscape, Fort Hood Military Installation, Texas"; SFA Undergraduate Research Conference, Stephen F. Austin State University, Nacogdoches, Texas
- Dailey, Heather J. and **Faulkner, Melinda S.** (April 2018) "Delineation and Classification of Karst Depressions using LiDAR: Owl Mountain Province, Fort Hood Military Installation, Texas"; SFA Graduate Research Conference, Stephen F. Austin State University, Nacogdoches, Texas
- Henry, Kaleb J. and **Faulkner, Melinda S.** (April 2018) "Geochemical and Mathematical Modeling of Karst Conduits with the Lampasas Cut Plain, Fort Hood Military Installation, Texas"; SFA Graduate Research Conference, Stephen F. Austin State University, Nacogdoches, Texas
- Meinerts, Jacob A. and **Faulkner, Melinda S.** (April 2018) "Evidence for a Middle Shelf to Shelf Margin Environment: Facies Analyses and Depositional Environment of the Owl Mountain Province, Fort Hood Military Installation, Texas"; SFA Graduate Research Conference, Stephen F. Austin State University, Nacogdoches, Texas

- Reece, Colby B. and **Faulkner, Melinda S.** (April 2018) "Using Electrical Resistivity Surveys to Determine Subsurface Connectivity in a Karst Terrain, Fort Hood Military Installation, Texas"; SFA Graduate Research Conference, Stephen F. Austin State University, Nacogdoches, Texas
- Robison, Annie P., Stevens, Liane M. and **Faulkner, Melinda S.** (April 2018) "The Unique Mineralogy of the Magnet Cove Intrusive Complex"; SFA Graduate Research Conference, Stephen F. Austin State University, Nacogdoches, Texas
- Watkins, Joseph W. and **Faulkner, Melinda S.** (April 2018) "Geologic Control of Mercury Transport in Big Cypress Bayou and Caddo Lake Watersheds, Harrison County, Texas"; SFA Graduate Research Conference, Stephen F. Austin State University, Nacogdoches, Texas
- Dailey, Heather J. and **Faulkner, Melinda S.** (March 2018) "Delineation and Classification of Karst Depressions using LiDAR: Owl Mountain Province, Fort Hood Military Installation, Texas"; 52nd Annual Meeting, South Central Geological Society of America, Little Rock, Arkansas
- Faulkner, Melinda S.** and Stafford, Kevin W. (March 2018) "Structural Control of Relict Karst Features in the Owl Mountain Province, Fort Hood Military Installation, Texas"; 52nd Annual Meeting, South Central Geological Society of America, Little Rock, Arkansas
- Henry, Kaleb J. and **Faulkner, Melinda S.** (March 2018) "Preliminary Geochemical Analyses of Karst Springs within the Fort Hood Military Installation, Texas"; 52nd Annual Meeting, South Central Geological Society of America, Little Rock, Arkansas
- Meinerts, Jacob A. and **Faulkner, Melinda S.** (March 2018) "Evidence for a Middle Shelf to Shelf Margin Environment: Facies Analyses and Depositional Environment of the Owl Mountain Province, Fort Hood Military Installation, Texas"; 52nd Annual Meeting, South Central Geological Society of America, Little Rock, Arkansas
- Reece, Colby B. and **Faulkner, Melinda S.** (March 2018) "Using Electrical Resistivity Surveys to Determine Subsurface Connectivity in a Karst Terrain, Fort Hood Military Installation, Texas"; 52nd Annual Meeting, South Central Geological Society of America, Little Rock, Arkansas
- Stafford, Kevin W., Brown, Wesley, and **Faulkner, Melinda** (March 2018) "Delaware Basin Evaporite Karst Geohazard Characterization, Texas: Coupling of Traditional Karst Analyses with Remote Sensing Characterization"; 52nd Annual Meeting, South Central Geological Society of America, Little Rock, Arkansas
- Watkins, Joseph W. and **Faulkner, Melinda S.** (March 2018) "Geologic Control of Mercury Transport in Big Cypress Bayou and Caddo Lake Watersheds, Harrison County, Texas"; 52nd Annual Meeting, South Central Geological Society of America, Little Rock, Arkansas

2017

- Watkins, Joseph D. and **Faulkner, Melinda S.** (March 2017) "Geologic Control of Mercury Transport in Big Cypress Bayou and Caddo Lake Watershed, Harrison and Marion Counties, Texas" Graduate Research Conference, Stephen F. Austin State University, Nacogdoches, Texas
- Meinerts, Jacob A. and **Faulkner, Melinda S.** (March 2017) "Depositional Environment and Facies Analyses of the Owl Mountain Province, Fort Hood Military Installation, Texas" Graduate Research Conference, Stephen F. Austin State University, Nacogdoches, Texas
- Faulkner, Melinda S.** (March 2017) "Remote Sensing Characterization of Structural Control and Origins of Sinkhole Development, Fort Hood Military Installation, Texas" South Central Geological Society of America, San Antonio, Texas
- Watkins, Joseph D. and **Faulkner, Melinda S.** (March 2017) "Geologic Control of Mercury Transport in Big Cypress Bayou and Caddo Lake Watershed, Harrison and Marion Counties, Texas" South Central Geological Society of America, San Antonio, Texas

Meinerts, Jacob A. and **Faulkner, Melinda S.** (March 2017) "Depositional Environment and Facies Analyses of the Owl Mountain Province, Fort Hood Military Installation, Texas" South Central Geological Society of America, San Antonio, Texas

Faulkner, Melinda S. and Meinerts, Jacob A. (March 2017) "Structural Control of surficial and relict karst in the Owl Mountain Province, Fort Hood Military Installation, Texas" Texas Academy of Science Annual Meeting, Belton, Texas

2016

Faulkner, Melinda S., Stafford, K. and McBroom, M. (September 2016) "The Hydromorphic Evolution of the Owl Mountain and Nolan Creek Provinces, Fort Hood Military Installation, Bell and Coryell counties, Texas" Gulf Coast Association of Geological Societies, Corpus Christi, Texas

Faulkner, Melinda S., Stafford, K. (April 2016) "Mesic Vegetation Communities within the Owl and Bear Creek watersheds as evidence of upward migration of deep-seated karst" Deep 2016, National Cave and Karst Institute, Carlsbad, New Mexico

Faulkner, Melinda S. and Stafford, K. (April 2016) "Structural Control of Relict Hypogene Karst Features in the Owl Mountain Province, Fort Hood Military Installation, Texas" Deep 2016, National Cave and Karst Institute, Carlsbad, New Mexico

Stafford, K. and **Faulkner, Melinda S.,** (April 2016) "Engineering Geohazards in Hypogene Evaporite Karst: Castile Formation, West Texas" Deep 2016, National Cave and Karst Institute, Carlsbad, New Mexico

Stafford, K. and **Faulkner, Melinda S.,** (April 2016) "Hypogene Karst Associated with Petroleum Resources in Pecos County, Texas" Deep 2016, National Cave and Karst Institute, Carlsbad, New Mexico

Stafford, K. and **Faulkner, Melinda S.,** (March 2016) "Evaporite Karst Geohazard Manifestations in Permian Strata, Culberson County, Texas" South Central Geological Society of America, Baton Rouge, Louisiana

Faulkner, Melinda S., Stafford, K. and McBroom, M. (March 2016) "Mesic Vegetation Communities within the Owl Creek and Bear Creek Watersheds as Evidence of Hypogene Karst" South Central Geological Society of America, Baton Rouge, Louisiana

2015

Faulkner, Melinda S., Stafford, K. and Bryant, A. (September 2015) "Paleostratigraphic bio- and litho-facies of the Owl Mountain Province, Fort Hood Military Installation, Bell and Coryell Counties, Texas. Gulf Coast Association of Geological Societies, Houston, Texas

Shaw Faulkner, M., Stafford, Kevin W., and McBroom, Matthew W. (March 2015) "Spatial Delineation of Subaqueous Karst Springs in Belton Lake along the Eastern Border of the Fort Hood Military Installation, Bell County, Texas. South Central Geological Society of America. Stillwater, Oklahoma.

Shaw Faulkner, M. and Stafford, K., (March 2015). "Geochemical Analyses of Karst Springs within the Owl Mountain and Nolan Creek Provinces, Fort Hood Military Installation, Texas," Texas Academy of Science Annual Meeting, San Antonio, Texas.

2014

Shaw Faulkner, M. and Stafford, K., (April 2014). "Geochemical Analyses of Karst Springs within the Owl Mountain and Nolan Creek Provinces, Fort Hood Military Installation, Texas," Association of Engineering and Environmental Geologists Texas Section Spring Meeting, San Antonio, Texas.

Shaw Faulkner, M., Stafford, K., and McBroom, M., (March 2014) "Spatial distribution of *Acer grandidentatum* within the Owl Mountain Province of the Fort Hood Military Installation, Texas," Texas Academy of Science, Galveston, Texas.

Stafford, K., Frantzen, A., and **Shaw Faulkner, M.,** (March 2014) "Mineralized Springs of Paleozoic Carbonates: Lampasas and San Saba Counties," Texas Academy of Science, Galveston, Texas.

Shaw Faulkner, M. and Stafford, K. (March 2014). "Preliminary geochemical analyses of springs within the Owl Mountain and Nolan Creek provinces, Fort Hood Military Installation, Bell and Coryell Counties, Texas" Presentation, Geological Society of America, Fayetteville, AR
 Stafford, K., Frantzen, A., and **Shaw Faulkner, M.** (March 2014). "Mineralized karst springs of central Texas: Lampasas and San Saba Counties." Presentation, Geological Society of America, Fayetteville, AR

2013

Shaw Faulkner, M., Stafford, K., and Bryant, A. (April 2013). "Geoanalytical analysis of speleogenetic development in the Owl Mountain and Nolan Creek Provinces: Fort Hood Military Installation, Texas". Presentation, South Central Geological Society of America Section Meeting, Austin, Texas.
 Stafford, K., **Shaw Faulkner, M.**, and Brown, W.A. (April 2013). "K-12 geoscience workshops and freshman field camp: TxKORP outreach". Presentation, South Central Geological Society of America Section Meeting, Austin, Texas.
Shaw Faulkner, M., and Stafford, K., (March 2013). "Delineation of speleogenetic development in the Owl Mountain Province: Fort Hood Military Installation, Texas". Presentation, 116th Annual Meeting of the Texas Academy of Science, Kerrville, Texas
 Stafford, K., **Shaw Faulkner, M.**, and Brown, W.A. (April 2013). "K-16 student engagement in geoscience workshops: TxKORP outreach". Presentation, 116th Annual Meeting of the Texas Academy of Science, Kerrville, Texas
Shaw Faulkner, M., and Stafford, K., (January 2013). "Delineation of speleogenetic development and karst depressions in the Owl Mountain Province: Fort Hood Military Installation, Texas". Presentation, AEG Texas Section Meeting, Austin, Texas

2012

Stafford, K., and **Shaw Faulkner, M.**, (March 2012). "Hypogene Diagenesis of the Castile Formation, Delaware Basin, West Texas", Presentation, South Central Geological Society of America Section Meeting, Alpine, Texas.
Shaw Faulkner, M., and Stafford, K., (March 2012). "Building bridges in our region: Texas Karst Outreach and Research Program", Presentation, 115th Annual Meeting of the Texas Academy of Science, Alpine, Texas.
Shaw Faulkner, M., and Stafford, K., (March 2012). "Carbonate Facies of the Owl Mountain Area, Fort Hood Military Installation, Bell County, Texas", Presentation, South Central Geological Society of America Section Meeting, Alpine, Texas.

2011

Stafford, K., and **Shaw Faulkner, M.**, (April 2011). "Surface denudation of the Gypsum Plain", Presentation, South Central Geological Society of America Section Meeting, New Orleans, Louisiana

2010

Brown, W.A., Stafford, K., **Shaw Faulkner, M.** and Grubbs, A. (April, 2010). "A Comparative Integrated Geophysical Study of Horse Shoe Chimney Cave, Colorado Bend State Park, Texas". Presentation: South-Central Geologic Society of America, Branson, Missouri

2009

Shaw, M. G. (March 2009). "The Environmental and Morphological Impact of the Atlas Mine Tailings along the Colorado River near Moab, Utah". 112th Annual Meeting of Texas Academy of Science Annual Meeting, Junction, Texas
Shaw, M. G., Stafford, K. (March 2009). "Local Ascending Fluids: Speleogenesis in the Cretaceous Carbonates of South Texas". 112th Annual Meeting of Texas Academy of Science Annual Meeting, Junction, Texas

- Frantzen, A. S., **Shaw, M.G.** (March 2009). "Geochemistry of the Southwest: Chemistry in the Great Outdoors" 112th Annual Meeting of Texas Academy of Science Annual Meeting, Junction, Texas
- Shaw, M.G.**, Frantzen, A. S., (March 2009). "Geochemistry of the Southwest Part Two: Geology and Chemistry, Together Again" 112th Annual Meeting of Texas Academy of Science Annual Meeting, Junction, Texas
- Power, S. M., **Shaw, M.G.** (March 2009) "Paragenetic Sequence and Glaciation Effects of the Ophiolite Complex and Surrounding Area of Gros Morne National Park, Canada" 112th Annual Meeting of Texas Academy of Science Annual Meeting, Junction, Texas
- Perrin, J.N., Tate, B.P., Frantzen, A. S., **Shaw, M.G.** (March 2009) "A Geochemical Comparison of Deep Geologic Radioactive Waste Sites" 112th Annual Meeting of Texas Academy of Science Annual Meeting, Junction, Texas
- Rich, A.J., **Shaw, M.G.**, Frantzen, A.S. (March 2009) "The Geochemistry of Soda Dam in the Jemez Mountains, Santa Fe National Forest, New Mexico" 112th Annual Meeting of Texas Academy of Science Annual Meeting, Junction, Texas
- Shaw, M.G.**, Frantzen, A. S., (January 2009). "Geochemistry of the Southwest" Faculty Lecture Series. College of Science and Mathematics, Stephen F. Austin State University, Nacogdoches, Texas

2008

- Shaw, M.G.**, Frantzen, A. S., (October 2008). "Thinking Outside the Box: Creative Teaching, Geochemistry of the Southwest" Stephen F. Austin State University, Board of Regents Meeting, Nacogdoches, Texas

2007

- Shaw, M. G.**, Frantzen, A. S., and Ledger, E. B. (March 2007). "Geologic Control of Stream Water Composition in Cherokee, Smith and Rusk Counties, Texas, Final Results" Texas Academy of Science Annual Meeting, Baylor University, Waco, Texas
- Nielson, R. L., Barker, C. A., Sharp, P. S., **Shaw, M. G.**, and Brown, W. A. (March 2007) "Weathering and Slope Stability of Grave Markers in Five Cemeteries in Central Texas" Texas Academy of Science Annual Meeting, Baylor University, Waco, Texas

2005

- Shaw, M. G.**, Ledger E. B., Frantzen A. S., and Barker C. A. (March, 2005) "Geologic Control of Stream Water Composition in Cherokee, Smith and Rusk Counties, Texas, Interim Results" Texas Academy of Science Annual Meeting, The University of Texas – Pan American, Edinburg, Texas

OTHER STUDENT RESEARCH AND PRESENTATIONS

- Beyer, Rebecca (May 2023) "The SFA Rock Garden: A Walk Through Geologic Time" Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas
- Colon, Leenell (May 2021) "Geochemical Analyses of Bauxite Tailings from Central Arkansas" Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas
- Amell, Joseph (December 2020) "Using XRF to determine Sub-surface lithologies in cores and cuttings" Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas
- Lauren Hellwig (May 2020) "Making Science More Accessible and Attractive to Students" Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas
- Ertons, Melanie (December 2019) "Epikarstal features in Western Fort Hood" Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas
- Amell, Joseph (December 2019) "The Rocks and Minerals of Central Arkansas" Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas

- Familo, Morgan (December 2019) "Biodiversity of Benthic Organisms in Lake Nacogdoches and Lake Naconiche, Texas" Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas
- Brown, Shannon M. (April 2018) "Building Alternative Transportation for the Future" Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas
- Warren, E. (August 2017) "A Greater Understanding of Electric Cars" Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas
- Krell, Lukas W. (October 2016) "Cave and Karst Research in the Owl Mountain Province" Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas
- Booker, C. (September 2016) "Stream Chemistry in the Big Cypress Bayou Watershed" Stephen F. Austin State University, Undergraduate Research, Nacogdoches, Texas
- Gray, W. (September 2016) "Stream Chemistry in the Little Cypress Bayou Watershed" Stephen F. Austin State University, Undergraduate Research, Nacogdoches, Texas
- Pettigrew, R. (September 2016) "Stream Chemistry in the Caddo Lake Watershed" Stephen F. Austin State University, Undergraduate Research, Nacogdoches, Texas
- Schutt, A. (September 2016) "Stream Chemistry in the Black Cypress Bayou Watershed" Stephen F. Austin State University, Undergraduate Research, Nacogdoches, Texas
- O'Shay, L. (June 2015) "Carbonate Titrations and Spring Chemistry of the Owl and Nolan Creek Provinces" Stephen F. Austin State University, Undergraduate Research, Nacogdoches, Texas
- Campbell, Chelsea K. (May 2015) "The Volcanic Eruptions of Mount Vesuvius" Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas
- Kammerer, William C. (May 2015) "Fossilization and Preservation in Sedimentary Environments" Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas
- Ratcliff, S. (April 2014) "An Examination of Three Biblical Events through Geological Evidence." Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas
- Harris, Elaine (October 2013) "Volcanoes of Hawaii." Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas
- Ramirez, Erik (November, 2013) "Iceland's Volcanic Activity and Energy Use" Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas
- Theobald, D. (December 2013) "The Depletion of Earth's Natural Defenses to the Sun's Harmful Radiation." Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas
- Mason, T. (December 2013) "*Acer grandidentatum* and vegetation associations." Stephen F. Austin State University, Undergraduate Research, Nacogdoches, Texas
- Jay, C. (June 2013) "Soil Texture and Physiochemical Properties, Fort Hood Military Installation." Stephen F. Austin State University, Undergraduate Research, Nacogdoches, Texas
- Hutchins, J. (March 2013) "Plant Associations of the Owl Mountain Province." Stephen F. Austin State University, Undergraduate Research, Nacogdoches, Texas
- Cox, Mady (April 2012) "Fossil Frenzy: A Trace Back Through Time." Stephen F. Austin State University, Undergraduate Research, Nacogdoches, Texas
- Schwedler, Christina (December 2011) "Copper Mining in the 21st Century" Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas
- Swift, R. (August 2011) "Geomicrobial characteristics of Mineralized Springs at Colorado Bend State Park." Stephen F. Austin State University, Undergraduate Research, Nacogdoches, Texas
- Williams, Z. (June 2011) "Geomicrobial characteristics of Mineralized Springs at Colorado Bend State Park." Stephen F. Austin State University, Undergraduate Research, Nacogdoches, Texas
- Grindle, Jay (May, 2010) "The Age-Old Problem: An Essay on the Estimated Age of the Earth". Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas

Soebbing, M. (May, 2010) "Various Factors that Killed off the Dinosaurs" Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas

Grindle, Jay (December, 2009) "Exploring the Relationship between Volcanic Activity and Economic Minerals in Southwestern Colorado". Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas

Morton, J. (July, 2009) "Evolution: General Theory and Some Problematic Misconceptions". Stephen F. Austin State University, School of Honors Research, Nacogdoches, Texas

COMMUNITY INVOLVEMENT

2012 – Present	Volunteer presenter, Stephen F. Austin High School STEM Day
2010 – Present	Volunteer presenter, Girl Scout STEM Day
2009 – Present	Hydrodays, a one-day seminar for middle school students in East Texas introducing water resources
2009 – Present	Geodays, a one-day seminar for middle school students in East Texas introducing energy resources
2002 – 2012	Volunteer with various activities related to the aquatic center of the Boys and Girls Club of Deep East Texas
2002 – 2012	Presentations about volcanoes and fossils to various elementary and middle schools in the area
2002 – 2007	Assisted with NISD Science Fair project design and research, Mike Moses Middle School
1999 – 2012	Volunteer in Public Schools, Nacogdoches Independent School District