

Sarah M Fearnley Hardage

The University of Texas Rio Grande Valley
 School of Earth, Environmental, and Marine Sciences
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Education

MS, University of New Orleans, 2004
 Major: Geology

Employment

Academic - Post-Secondary

Academic - Post-Secondary, Lecturer, UTRGV, (2015)
 Academic - Post-Secondary, Lecturer, UT Pan American, (2012 - 2014)
 Academic - Post-Secondary, Instructor, Laredo Community College, (2009 - 2011)
 Academic - Post-Secondary, Research Associate and Laboratory Manager, University of New Orleans, (2004 - 2009)

Professional

Professional, GIS Specialist, Hidalgo County Metropolitan Planning Organization, (2014 - 2015)

Publications

Journal Article, Academic Journal

Juan Gonzalez and James Hinthorne and Russell Skowronek and Roseann Bacha-Garza and Christopher Miller and Sarah Fearnley Hardage. Social legacy and geoheritage significance of the largely overlooked Catahoula Volcanic Ash of South Texas. London: *Geological Society of London, Special Publication 543*. (August) Special Publication 543, <https://doi.org/10.1144/SP543-2022-253>

Contracts, Grants and Sponsored Research

Roseann Bacha-Garza and Russell K Skowronek and Juan Luis Gonzalez and Christopher L Miller and Sarah M Fearnley Hardage. Grant Ancient Landscapes of South Texas The Summerlee Foundation of Dallas Foundation , 20000\$ (February 2023 - February 2024)

Awards and Honors

Teaching

Nominated - Faculty Excellence Award in Teaching - Non-Tenure Track Faculty. UTRGV (April 2022)
 Nominated - Faculty Excellence Award in Teaching - Non-Tenure Track Faculty. UTRGV (March 2021)
 Nominated - Regent's Outstanding Teaching Award. University of Texas System Board of Regents (March 2021)

Presentations

Juan Luis Gonzalez and Edoardo Davila and Sarah M Fearnley Hardage."Anthropogenically driven sinuosity variations on the channel of the lower Rio Grande, Texas, USA".XXI INQUA Congress, INQUA, Rome, Italy. (July 22, 2023)
 Edoardo Jair Herebia and Juan Luis Gonzalez and Chu-Lin Cheng and Sarah M Fearnley Hardage and Pushpa Gautam Soti."Anthropogenically induced sinuosity changes on the channel of the lower Rio Grande".The Geological Society of America, South-Central Section Annual Meeting, Geological Society of America (GSA), South-Central Section, Online - McAllen, Texas. (March 15, 2022)
 Roseann Bacha-Garza and Sarah M Hardage."The Underground Railroad - The Secret History".Discovery+ Channel, The Science Channel, Rio Grande Valley. (January 30, 2022)
 Juan L Gonzalez and Roseann Bacha-Garza and Russell Skowronek and Sarah M Hardage."The Ancient Landscapes of South Texas, Hidden in Plain Sight".Annual Meeting Geological Society of America, Geological Society of America, Portland, Oregon. (October 12, 2021)
 Juan Gonzalez and Brandi Reger and Sarah Fearnley Hardage and Russell Skowronek."Dune Migration, paleosols and Projectile Points: New Geoaerchological Insights on the South Texas Sand Sheet".Geological Society of America South-Central Section Meeting, Geological Society of America, Fort Worth, TX. (March 10, 2020)
 Juan L Gonzalez and Brandi Reger and Sarah Fearnley Hardage and Russell K. Skowronek."Dune migration, paleosols and projectile points: new geoaerchological insights on the South Texas Sand Sheet".Annual Meeting of the Geological Society of America, Phoenix. (September2019)
 Juan Gonzalez and Brandi Reger and Sarah Hardage and Russell Skowronek."Projectile points exhumed by dune migration, Implications for human presence and mid-holocene (?) wetter climate in the South Texas Sand Sheet

".Society for American Archaeology 84th Annual Meeting, Society for American Archaeology, Albuquerque, New Mexico. (April 10, 2019)

Brandi Reger and Sarah Hardage and Juan Gonzalez."An isolated dine's response to severe drought in Southern Brooks County, Texas".Geologic Society of America Joint 53rd South-Central Section Meeting, Geological Society of America, Manhattan, Kansas. (March 27, 2019)

Juan Luis Gonzalez and Brandi Reger and Sarah M Fearnley Hardage and Russell K Skowronek."Exhuming of projectile points by dune migration, implications for human presence and wetter conditions in the South Texas Sand Sheet".Texas Archaeological Society 89th Annual Meeting, Texas Archaeological Society, San Antonio, TX. (October 27, 2018)

Eli Gonzalez and Chu-Lin Cheng and Juan Luis Gonzalez and Sarah M Fearnley Hardage."Subsurface 3D Model of the South Texas Sand Sheet and its Connection to Regional Hydrologic Systems".Gulf Coast Association of Geological Societies (GCAGS) Annual Convention, Gulf Coast Association of Geological Societies (GCAGS), San Antonio, TX. (November2017)

Teaching

Teaching Experience

BIOL 4403, Intro Remote Sensing Tech, 7 Course(s)

BIOL 4403, Intro Remote Sensing Tech Lab, 1 Course(s)

ENVR 1401, Intro to Envr Sci I, 18 Course(s)

ENVR 1402, Intro to Envr Sci II, 3 Course(s)

GEOL 1401, Physical Geology, 22 Course(s)

GEOL 1402, Historical Geology, 5 Course(s)

GEOL 1403, Physical Geology, 73 Course(s)

GEOL 1404, Historical Geology, 19 Course(s)

GEOL 3288, Lab Exp Teaching Geology, 5 Course(s)

GEOL 3308, Intro Geograph Info Syst, 2 Course(s)

GEOL 3401, Geomorphology, 8 Course(s)

GEOL 3408, Intro to GIS, 6 Course(s)

GEOL 4302, Environmental Geology, 2 Course(s)

GEOL 4309, UG Research Geoscience, 6 Course(s)

GEOL 4408, Applications of GIS, 6 Course(s)

GEOL 4411, Intro to GIS, 20 Course(s)

GEOL 4412, Adv GIS, 6 Course(s)

PSCI 1421, Physical Science I, 2 Course(s)

Directed Student Learning

Master's Thesis Support - GIS,Starr Hein. The First Peoples of the Lower Rio Grande Valley of Texas and Northern Mexico: An Interdisciplinary Approach to Defining the Paleoindian Period, Department of Sociology and Anthropology. (March 29, 2023 - June 16, 2023)

Undergraduate Directed Individual/Independent Study,Joseph Rabago. LAB EXPERIENCE TEACHING GEOLOGY , School of Earth, Environmental, and Marine Sciences. (January 17, 2023 - May 5, 2023)

Undergraduate Directed Individual/Independent Study,Yesenia Santillan. Cemeteries Historical Founding in Lower Rio Grande Valley, Texas, School of Earth, Environmental, and Marine Sciences. (January 17, 2023 - May 5, 2023)

Undergraduate Directed Individual/Independent Study,Stephanie Cano. Identification of Historic Ranches in Hidalgo County using Rectification of 1911 and 1912 Historic Maps and the Movement of the Rio Grande River, School of Earth, Environmental, and Marine Sciences. (August 30, 2021 - December 1, 2021)

Master's Thesis Committee Member,Edoardo Davila. Assessing the Anthropogenic footprint on the channel sinuosity of the Rio Grande the Delta, School of Earth, Environmental, and Marine Sciences. (August 26, 2021 - August 8, 2021)

Undergraduate Directed Individual/Independent Study,Lilly Elliott. Evaluation of dune stabilization with boardwalk implementation in 2016 at South Padre Island, Texas , School of Earth, Environmental, and Marine Sciences. (January 13, 2020 - May 7, 2020)

Undergraduate Directed Individual/Independent Study,Andreas Guevara-Nadeau. Urban Heat Island Effects Using Land Surface Temperature (LST) in Hidalgo, Texas, Department of Civil Engineering. (January 14, 2019 - April 30, 2019)

Undergraduate Directed Individual/Independent Study, Frank DeSantiago. GIS evaluation of fire at the Chaparral Wildlife Management Area, Cotulla, Texas, Biology (UTPA). (August 27, 2018 - December 4, 2018)

Undergraduate Directed Individual/Independent Study, Miranda Garcia. Catahoula formation ash outcrops in Northeastern Mexico, Department of Civil Engineering. (August 27, 2018 - December 4, 2018)

Service

Department Service

Committee Member, Lower Level ENVR/GEOL (June 10, 2023)

Committee Chair, ENVR Career Conference and Internship Panels (October 1, 2022)

Committee Chair, GTA Training (August 1, 2022)

Participant, ENVR Program Committee (September 1, 2018)

Participant, Faculty Support with GIS (September 1, 2018)

Committee Co-Chair, Geology Club Faculty Mentor (September 1, 2018)

Committee Chair, ENVR Program Committee (March 15, 2022 - November 4, 2022)

Committee Chair, 3yr Lecturer in SEEMS (May 1, 2022 - August 15, 2022)

Other, Lab Coordinator & GTA Supervisor (September 1, 2021 - August 15, 2022)

Participant, Lab Coordinator (May 1, 2022 - July 30, 2022)

Committee Chair, New Lecturer's Mentor (September 1, 2019 - May 15, 2021)

Participant, Administrative Assistant Hiring Committee (October 7, 2020 - January 10, 2021)

Participant, SEEMS Strategic Plan (November 1, 2020 - December 31, 2020)

Committee Co-Chair, Physical Geology Field Trip (October 3, 2019 - October 26, 2019)

Other, GIS Minor Curriculum Update (January 1, 2019 - April 2, 2019)

Participant, SHIP-GEO (February 1, 2019 - March 2, 2019)

Committee Chair, GIS Curriculum Update (June 2017 - May 2018)

College Service

Participant, Ancient Landscapes: Exploring South Texas Through Time (April 13, 2017)

Committee Member, COS Grade Appeal Committee (June 26, 2019 - July 1, 2019)

University Service

Committee Co-Chair, GEOL 1403 Core Assessment (September 1, 2020)

Other, HESTEC 2020, 2021, 2022 (November 20, 2020 - May 18, 2022)

Development Activities Attended

- Webinar, "Virtual Field Trip to Monument Valley", McGraw Hill (April 21, 2023 - April 21, 2023)
- Workshop, "McGraw Hill Geoscience Symposium", McGraw Hill (March 31, 2023 - March 31, 2023)
- Webinar, "UTRGV CTE - Say Goodbye to Reading the Syllabus", CTE (December 6, 2022 - December 6, 2022)
- Workshop, "NOAA - Women In Science Leadership Workshop", NOAA (May 12, 2022 - May 13, 2022)
- Seminar, "Coaching your TAs to use effective teaching strategies in Introductory Earth science courses", Geodesy Tools for Societal Issues (GETSI) (April 22, 2022 - April 29, 2022)
- Workshop, "PRIMERS Peer Mentoring", NSF (February 1, 2022 - March 15, 2022)
- Seminar, "Center for Teaching Excellence - Returning to Teaching In Person", Center for Teaching Excellence - UTRGV (February 3, 2022 - February 4, 2022)
- Seminar, "Center for Teaching Excellence - Rocking the Syllabus", Center for Teaching Excellence - UTRGV (December 6, 2021 - December 7, 2021)

Professional Service

Conference-Related, Geological Society of America - South Central Section Annual Meeting Planning Committee. McAllen, Texas (February 28, 2021 - March 16, 2022)

Public Service

Committee Chair, Geographic Information Systems (GIS) Day. Edinburg, TX (September 1, 2020 - November 17, 2023)

Guest Speaker, Earth Fest 2022 - Office of Sustainability. Edinburg, Texas (April 1, 2022 - April 20, 2023)

Judge, Rio Grande Valley Regional Science and Engineering Fair (RGVRSEF). Brownsville, TX (February 15, 2020 - February 18, 2023)