

Edna Rodriguez Calzado

Professional Summary

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Professional Preparation

Academic Background

Master of Science in Energy and Earth Resources, Jackson School of Geosciences, The University of Texas at Austin, May 2023

Bachelor of Science in Geological Sciences, Jackson School of Geosciences, The University of Texas at Austin, December 2016

Theses

Estimating CO₂ storage capacity, injectivity, and storage costs for large-scale CCS deployment & carbon dioxide removal goals, The University of Texas at Austin, 2023, 122 p.

Presentations

Presentations

Geospatial analysis for the potential development of data centers in Texas: presented at Research Traineeship Experience (RTX) poster presentation, Jackson School of Geosciences, June 3-August 2, 2024.

Publications

Peer Reviewed Book Chapters

Dickerson, P. W., Stockli, D. F., and Rodríguez Calzado, E., 2024, Neoproterozoic-Early Paleozoic rifting in central southern Laurentia-Zircon U-Pb geochronological evidence from the Devils River Uplift, West Texas, United States, in Chiarella, D., Scarselli, N., and Adam, J., eds., Phanerozoic rift systems and sedimentary basins (2d ed.): Cambridge, Mass., Elsevier, Regional Geology and Tectonics, v. 2, p. 85-100, <http://doi.org/10.1016/B978-0-444-64136-6.00010-5>.

Peer Reviewed Journal Articles

Lin, N., Arzumanyan, M., Rodriguez Calzado, E., and Nicot, J.-P., 2025, Water requirements for hydrogen production: assessing future demand and impacts on Texas water resources: Sustainability, v. 17, no. 2, article no. 385, 25 p., <http://doi.org/10.3390/su17020385>.

Rodriguez Calzado, E., Razm, S., and Lin, N., 2025, Assessing spatial feasibility for hydrogen hub development in South-Central U.S.: challenges, infrastructure synergy, and strategic planning: International Journal of Hydrogen Energy, v. 111, p. 171-182, <http://doi.org/10.1016/j.ijhydene.2025.01.464>.

Non Peer Reviewed Journal Articles

Rodriguez, E., Bump, A., and Hovorka, S. D., 2024, Estimating CO₂ Storage Capacity, Injectivity, and Storage Costs for Large Scale CCS Deployment & Carbon Dioxide Removal

Goals: Social Science Research Network, GHGT-17 conference proceedings, 11 p., <http://doi.org/10.2139/ssrn.5022393>.

Conference Proceedings

Rodriguez Calzado, E., Hovorka, S. D., and Bump, A., 2022, Mapping CO₂ Injectivity Potential Within Available CO₂ Underground Storage Window in Sedimentary Rocks Across the United States, AGU Fall Meeting.

Rodriguez, E., Dickerson, P. W., and Stockli, D. F., 2017, New Zircon U-Pb Age Constrain of the Origin of Devil's River Uplift (SW Texas) and Insights into the Late Proterozoic and Paleozoic Evolution of the Southern Margin of Laurentia, AGU Fall Meeting.

Rodriguez, E., Hart, D. M., and Cardenas, M. B., 2016, Groundwater and Surface Water Interactions in a Semi-Arid Floodplain: Integrating Flow Path, Chemical, and Thermal Measurements, AGU Fall Meeting.

Published Reports

Jennifer Pett-Ridge, Sara Kuebbing, Allegra C. Mayer, Hovorka, S. D., Hélène Pilorgé, Sarah E. Baker, Simon H. Pang, Corinne D. Scown, Kimberly K. Mayfield, Andrew A. Wong, Roger D. Aines, Hamed Ziad Ammar, Alvin Aui, Mark Ashton, Bruno Basso, Mikel Bradford, Bump, A., Ingrid Busch, Rodriguez, E., Jackson W. Chirigotis, Nicolas Clauser, Sinead Crotty, Nicholas Dahl, Tao Dai, Mark Ducey, Jerome Dumortier, Nathan C. Ellebracht, Gil-Egui, R., Ames Fowler, Katerina Georgiou, Diamantoula Giannopolous, Hannah M. Goldstein, Thomas Harris, Dermot Hayes, Chad Hellwinckel, Alina Ho, Mu Hong, Elwin Hunter-Sellers, Whitney Kirkendall, Matthew Langholtz, Mark Layer, Ian Lee, Reid Lewis, Wengin Li, Weier Liu, Jimena Terrazas Lozano, Abby Lunstrum, Wilson McNeil, Peter Nico, Anastasia O'Rourke, K. Paustian, George Peridas, Maxwell Pisciotta, Lydia Price, Peter Psarras, G. Phillip Robertson, William Joe Sagues, Daniel L. Sanchez, Briana Mordick Schmidt, Eric W. Slessarev, Noah Sokol, Alexander J. Stanley, Amy Swan, Crystal Toureene, Mark Mba Wright, Yuan Yao, Bingquan Zhang, and Yao Zhang, 2023, Roads to Removal: Options for Carbon Dioxide Removal in the United States: Lawrence Livermore National Laboratory, v. 1, no. LLNL-TR-852901; 1080440, 559 p.