ISAAC A. RANGEL

Department of Sustainable Earth Systems Sciences, University of Texas at Dallas
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EDUCATION

Period	Institution	Degree
August 2023 – Present	University of Texas at Dallas	PhD in Geosciences (GPA: 4.0)
August 2019 – August 2023	University of Texas at Dallas	BS in Geosciences (GPA: 3.66)
August 2019 – August 2023	University of Texas at Dallas	Minor in Geography

PROFESIONAL EXPERIENCE

2024 - Present	Research Assistant, University of Texas at Dallas, Dept. of Sustainable Systems Sciences
2025 - Summer	Co-Instructor University of Texas at Dallas, Dept. of Sustainable Earth Systems Sciences
2024	Teachers Assistant, University of Texas at Dallas, Dept. of Sustainable Earth

AWARDS & HONORS

2025	Department of Sustainable Earth System Sciences Scholarship
2024	UT Dallas Eugene McDermott Graduate Fellow
2024	**National Science Foundation Graduate Research Fellowship**
2024	Outstanding Teaching Assistance Award
2024	Department of Sustainable Earth Systems Sciences Scholarship
2023	Field Camp II Reimbursement Department Scholarship
2022	Dean's Academic Honor List for the School of Natural Sciences and Mathematics
2022	James B. Scholarship Fund

CONFERENCE PRESENTATIONS

2025	**GSA Annual Conference Meeting, San Antonio Tx:** Revised tectonic framework for the Clayton Valley, NV volcano-sedimentary lithium deposits (Rangel, I.A., Cawood, A.J., Sickman, Z.T., Butler, K.L., Ferrill, D.A., Blake, M.R., Swanson, B., Ibarrra, D.E., Gagnon, C.A., Munk, L.A., Boutt, D.F., & Smart, K, J.,)
2025	GSA Annual Conference Meeting, San Antonio Tx**:** Geochemical constraints on lithium transport in fault and fracture systems (Cawood, A.J., Ferrill, D.A., Rangel-Landeros, I.A., Butler, K.L., Ibarra, D.E., Sickmann, Z.T., Blake, M.R., Swanson, B., Smart, K.J., Munk, L.A., Boutt, D.F., Stockli, L.D, Stockli, D.F., & Gagnon, C.A.,)
2024	University of Texas at Dallas, Earth Science Research Symposium: Overview of a new lithium deposit in the Jadar sedimentary basin, Serbia
2023	University of Texas at Dallas, Earth Science Research Symposium: Snow albedo

feedback in the Sierra Nevada Mountains

PROFESSIONAL AFFILIATIONS & MEMBERSHIPS

Geological society of America (GSA)
Society of Exploration Geophysicists (SEG)
UTD Geoscience club
UTD AAPG club

FIELD WORK

2026	California, Central Valley basin
2025	Texas, Coastal and fluvial systems
2025	Nevada, Sedimentary basins in Basin and Range
2024	Texas, Coastal and Fluvial systems, & High-Plains Permian to recent strata

SKILLS

Geographic Information Systems (GIS): ArcGIS pro and QGIS
Mineral Separation: Sample preparation, magnetic separation, heavy liquid separation
Petrography: Mineral point counting, grain size analysis
Outdoor/Backcountry skills: Climbing, Wilderness and Remote First Aid certified
Foreign Language: Native Spanish (fluent in written and verbal communications)

RESEARCH EXPERIENCE

2023 – Present	Integrate core concepts such as sedimentology, stratigraphy, geo-/thermochronology, and structural geology of sedimentary basins responses to tectonic events in western North America

TEACHING EXPERIENCE

2025	**Co-instructor** (with Z. Sickmann and K. Butler: Dept. of Sustainable Earth System Sciences, University of Texas at Dallas. Field Geology I
2024	**Teaching Assistant**, Z. Sickmann and K. Butler: Dept. of Sustainable Earth System Sciences, University of Texas at Dallas. Field Geology I & II
2024	**Teaching Assistant**, Z. Sickmann and K. Butler: Dept. of Sustainable Earth System Sciences, University of Texas at Dallas. Structural Geology

PUBLICATIONS (GSA FORMAT)

Submitted Manuscript available on request

Cawood, A.J., Ferrill, D.A., **Rangel-Landeros, I.A.**, Butler, K.L., Ibarra, D.E., Sickmann, Z.T., Blake, M.R., Swanson, B., Smart, K.J., Munk, L.A. and Boutt, D.F., Fault and fracture networks as long-lived conduits for lithium transport. *EGUsphere* (in review), pp.1-21.

Abayomi, A.A., Sickmann, Z.T., **Rangel, I.A.,** Warber, J., & Brown, N.D. Overprinting of headwater detrital provenance signatures by coastal plain erosion. *Journal of Sedimentary Research* (in review)

Manuscript in prep

Rangel, I.A., Cawood, A.J., Sickman, Z.T., Butler, K.L., Ferrill, D.A., Blake, M.R., Swanson, B., Ibarra, D.E., Gagnon, C.A., Munk, L.A., Boutt, D.F., and, Smart, K, J., 2026, Tectonic Controls on the development of volcano-sedimentary lithium deposits: Example from Clayton Valley, NV.