

Rebecca Funderburg

3225 River Lodge Trl N Apt 711, Fort Worth, TX 76116
rebecca.l.funderburg@gmail.com, 580-504-9212

PROFESSIONAL PROFILE

Geochemist with applicable experience in environmental science, low-temperature aqueous geochemistry, chemical analysis, GIS, research, technical writing, and statistical analysis.

- Coursework in Phase 1 & 2 ESAs, NEPA studies, hydrogeology, water law, and environmental geology with experience writing technical reports
- GIS minor and technical proficiencies in GIS, GPS, and digital mapping
- Pursuing Geoscientist-in-Training certification

EDUCATION

Texas Christian University Fort Worth, TX
Master of Science in Geology, May 2018 GPA: 3.65
Thesis: Metasomatism in Eucrites

University of Oklahoma Norman, OK
Bachelor of Science in Multidisciplinary Studies, concentration geology & GIS GPA: 3.3
Thesis: Comparing Reactive Surface Area of Glacial & Non-Glacial Sediments

EXPERIENCE

Graduate Teaching Assistant, Texas Christian University Fall 2016-Present

- Teach undergraduate introductory geology, mineralogy, and petrology labs
- Communicate material effectively to geology and non-science majors

NASA Summer Intern, Goddard Space Flight Center Summers 2014, 2015, & 2017

- Determined limits of detection with linear trap and time of flight mass spectrometers
- Developed an LA-ICP-MS method for improved measurement of rare earth elements
- Instructed & supervised LA-ICP-MS users, performed troubleshooting of LA-ICP-MS and SEM, analyzed terrestrial rock and meteorite samples

Undergraduate Researcher, University of Oklahoma Geology Department Fall 2013-Summer 2016

- Dissolve surface area-normalized sediment in aqueous solution & analyze cation chemistry to determine reactive surface area
- Prepare buffer solutions & process sediment following lab procedures

XRD Lab Assistant, University of Oklahoma Geology Department Fall 2015-Spring 2016

- Prepare samples for powder XRD, run instrument, analyze results with Jade pattern analysis software to determine mineralogy

PUBLICATIONS & PRESENTATIONS

Improved Precision and Accuracy of Quantification of Rare Earth Element Abundances via Medium-Resolution LA-ICP-MS. Funderburg, R., Arevalo, R., Locmelis, M. et al. J. Am. Soc. Mass Spectrom. Published 2017.

- Oral presentation at Geological Society of America (GSA) Meeting, 2015

Assessing Reactive Surface Area of Sediments from End-Member Climates. R. Funderburg, M.E. Elwood Madden, Y.J. Joo, K. Marra, G.S. Soreghan.

- Poster presentations at GSA, Lunar and Planetary Science Conference, AGU, and Goldschmidt

RELEVANT COURSEWORK

Phase 1 & 2 Environmental Site Assessment	Environmental Geology
Environmental Impact Statements (informally audited)	Hydrogeology
	Introduction to Water Law

SKILLS

Proficient in ESRI ArcMap Suite and Microsoft Office, some experience with R, Python, and Geochemist's Workbench