John Franey

johnfraney@utexas.edu • (361)-563-0841

EDUCATION

The University of Texas at Austin	Jackson School of Geosciences, M.S. Geophysics	December 2021
	Thesis – *High Order Stratigraphic Framework of Intraslope Growth Faulted Subbasins Offshore Matagorda Bay, Texas*	
	Advised by Dr. Tip Meckel	
The University of Texas at Austin	Jackson School of Geosciences, B.S. Geophysics—Honors	May 2019
	Thesis—*Effects of Grain Interlocking on Thresholds of Motion in Gravel-Bedded Rivers*	
	Advised by Dr. Joel Johnson	
	McCombs School of Business, Energy Management Program	

RELEVANT COURSEWORK

Subsurface Machine Learning, Geostatistics, Signal Processing, Computational Geophysics, Mathematical Modeling, Gravitational and Magnetic Field Applications, Statistics, Linear Algerbra, Differential Equations, Waves and Optics

EXPERIENCE

Earth Science Information Partners—*Co-PI, Grant-funded Software Development*   January 2020–May 2021

- Grant awarded in collaboration to develop <u>LakePy</u>, a Python package used to analyze current and historical lake level observations
- Developed back-end data scrapping and architecture of AWS hosted <u>Global Lake Level Database</u>

Gulf Coast Carbon Center—*Graduate Research Assistant*; Austin, TX   August 2019–Present

- Analyzed seismic amplitude field using principal component analysis to estimate seismic dip and improve data resolution
- Leveraged findings to improve risk assessment of future <u>carbon storage sites</u>

EOG Resources, Inc.—*Geophysicist Intern*; Denver, CO   May 2021–August 2021

- Conducted seismic inversion studies to predict lithologies and rock properties from seismic reflection data to improve volume estimations for carbon storage
- Integrated findings into Monte-Carlo simulations for probabilistic estimation of costs and returns

LEADERSHIP EXPERIENCE AND ACTIVITES

Geological Society of America—*Member*   September 2015–Present

Premier geological society supporting the global community in scientific discovery, communication, and application of geoscience knowledge

Texas Silver Spurs—*Member*   February 2017–May 2019

- Served as official ambassadors for the University of Texas
- Volunteered with the Neighborhood Longhorn Program assisting local Austin elementary schools in supplemental education

HONORS

- **Unrestricted Endowed Presidential Scholarship**   2018

Awarded for outstanding academic achievement as determined by Dean of the Department of Geophysics

- **Jackson School of Geosciences Academic Scholarship**   2016–2019

Awarded for continuous high performance in academics

- **Eagle Scout**   2014

Planned, fundraised, and oversaw a project involving over 300 man-hours

ADDITIONAL INFORMATION

Computer Skills: Python, AWS, MySQL, R, MatLab, Bash, QGIS, MS Office
Interests: Back-Country Camping, Wiffleball, Live Music, Fermentation and Baking
Work Eligibility: Eligible to work in the U.S. with no restrictions