

KAITLIN ELIZABETH SCHAIBLE

Graduate Student • University of Texas Institute for Geophysics • Jackson School of Geosciences
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RESEARCH INTERESTS

Understand the spatial and temporal evolution of stress in subduction zones and along the primary plate interface through direct stress measurements and numerical modeling. Conduct laboratory experiments on materials recovered from international ocean drilling expeditions to investigate the material properties and mechanics of subduction zone sediments.

EDUCATION

University of Texas at Austin 2026 (anticipated)
PhD Candidate, Geophysics
Advisor: Demian Saffer
PhD Topic: Multidisciplinary investigation of stress in subduction zones through wellbore breakout analysis, numerical modeling of stress, and laboratory testing of natural subduction zone materials.
Cumulative GPA: 4.0/4.0

Carleton College, Northfield, MN June 2019
Bachelor of Arts, Geology
Magna Cum Laude, Phi Beta Kappa
Cumulative GPA: 3.83/4.0

HONORS AND AWARDS

2022 AGU Outstanding Student Presentation Award
2018 Littell Internship Award

RESEARCH AND FIELD EXPERIENCE

2023	CK23-03, D/V Chikyu Planned participation as part of the science party for the borehole observatory installation in the Nankai Trough, November 2023.	25 days
2023	TN415 CORKs, R/V Thompson, ROV Jason Chief Scientist: E. Solomon. Performed watch duties during instrument deployment and recovery at CORK observatories with ROV Jason.	14 days
2021	Civil Engineering Field and Laboratory Technician Conducted geotechnical site inspections and aggregate testing.	2 years
2020	Electrical Resistivity field survey, THG Geophysics Conducted site surveys for a prospective wind turbine installation.	9 days

2018	Lake Powell Coring Chief Scientist: S. A. Hynek. Assisted with sediment core processing and characterization during drilling operations. Collected water samples and conducted grain size analysis.	14 days
2018	Geology of New Zealand Field Course and Mapping	70 days

PUBLICATIONS AND PRESENTATIONS

Schaible, K., & Saffer, D.M., (2023) In situ stress within the Nankai accretionary prism determined from borehole breakouts, *IODP NanTroSEIZE Synthesis Workshop* (Talk)

Schaible, K., Heidari, M., Saffer, D.M., Flemings, P.B., (2023) Revisiting stress determinations from borehole breakouts at subduction zones: the role of plastic failure, *AGU Fall Meeting Abstracts*

Bolton, D.C., Shreedharan, S., **Schaible, K.**, Saffer, D.M., Trugman, D.T., (2023) Insights into the physics of earthquake rupture from a 1-meter earthquake machine, *AGU Fall Meeting Abstracts* (Poster)

Schaible, K., & Saffer, D.M., (2022) In situ stress within the Nankai accretionary prism determined from borehole breakouts, *AGU Fall Meeting Abstracts*, T32E-0211 (Poster)

In Preparation

Schaible, K., & Saffer, D.M., (2023) In situ stress within the Nankai accretionary prism determined from borehole breakouts and implications for fault strength. *In prep.*

RELEVANT COURSEWORK

Python for Geoscience Research, Crustal Geofluids, Reservoir Geomechanics, Continuum Mechanics, Numerical Modeling in Geosciences, Marine Geophysics Field Course, Multivariable Calculus, Linear Algebra

SKILLS

Python, MATLAB, Java, R, ArcGIS, Adobe Illustrator, Microsoft Office, Geolog, Kingdom Suite

WORKSHOPS AND SHORT COURSES

[2023] MTMOD Megathrust Modeling Framework Summer School, Austin, TX

[2022] SZ4D Community Meeting, Houston, TX

[2022] MTMOD Megathrust Modeling Framework Summer School, Austin, TX