

TARA NYE

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EDUCATION

Ph.D | *Earth Sciences* Sep 2019 – Present
University of Oregon (UO) Eugene, OR
Advisor: Valerie Sahakian

B.S. | *Major: Geological Sciences, Minor: Physics* Aug 2015 – Jun 2019
Brigham Young University (BYU) Provo, UT

AWARDS

Warren DuPre Smith Scholarship, UO Earth Sciences Dept. Spring 2020
Promising Scholar Award, UO Graduate School Fall 2019
Field Camp Scholarship, BYU Geology Dept. Spring 2019
Student Research Conference: Section Winner, BYU CPMS March 2018
EERI Undergraduate Student Paper Competition: Honorable Mention Fall 2018
Kathryn L. Simpson Women in Science Scholarship, BYU Fall 2018 – Winter 2019
J. Keith Rigby Scholarship, BYU Geology Dept. Fall 2016 & Fall 2018

SKILLS

Programming Languages: Python, MATLAB, Julia, L^AT_EX
Seismic Processing/Interpretation: ObsPy, FakeQuakes, Geoprobe, Kingdom Suite
Mapping: ArcPro, QGIS
Design: Illustrator, Photoshop

RESEARCH EXPERIENCE

Graduate Student Researcher, *University of Oregon* Sep 2019 – Present
Earth Sciences Eugene, OR
Ph.D. Advisor: Valerie Sahakian
Characterize parameters of tsunami earthquakes for use in early hazard warning and compute site parameters for the San Francisco Bay area.

Research Assistant, *Brigham Young University* Sep 2018 – Apr 2019
Geology Provo, UT
Advisor: Ron Harris
Researched methods of converting MMI to magnitude, calculated accumulated stress along the Sumatra subduction zone, and identified areas of greatest seismic risk.

IRIS Intern, *U.S. Geological Survey* Jun 2018 – Aug 2018
Seismology Golden, CO
Advisors: Kate Allstadt and Eric Thompson
Evaluated models for predicting duration-related parameters of strong ground motion for use in ShakeMap.

Research Assistant, *Brigham Young University* Oct 2016 – Apr 2018
Geology Provo, UT
Advisor: John McBride
Assisted with conducting a P-wave seismic survey and with collecting geochemical stream data to correlate faults with thermal springs.

FIELDWORK

- Lake Imaging, Florence, OR** June 2021
P.I.: Valerie Sahakian
Use of side scanner and mini chirp instruments to image Lake Muncel and Lake Mercer.
- Cascadia2021 Nodal Seismometer Installation, Oregon Coast Range** May-July 2021
P.I.: Anne Trehu, Emilie Hooft, Erin Worth, and Kevin Ward
Installation of ~900 nodal seismometers for use in Cascadia2021 imaging project.
- GPR Survey, Nauvoo, IL** Sep 2018
P.I.: John McBride
Collection of GPR data to identify a buried foundation.
- S-Wave Seismic Survey, outside Socorro, NM** May 2018
P.I.: Michael Hubenethal
Conduction of seismic survey for field experience during an internship orientation.
- Geochemical Survey, Virgin River, Hurricane, UT** Sep 2017
P.I.: Steve Nelson
Collection of geochemical data in the Virgin River to correlate with thermal springs.
- P-Wave Seismic Survey, Hurricane, UT** Aug 2017
P.I.: John McBride
Conduction of seismic survey to correlate faults and fracture zones with thermal springs.

COMMITTEES

- Women in STEM Club President, BYU CPMS** Sep 2018 – Apr 2019
Planned social and academic events with the goal of recruiting women into STEM majors and providing them with the support they needed. Provo, UT
- Women in STEM Council, BYU CPMS** Sep 2017 – Apr 2018
Addressed the needs of women in STEM-related majors and developed unity within the college. Provo, UT

TEACHING AND MENTORING

- IgDEAS Mentor, IgDEAS, UO** Sep 2020 – Present
Mentor undergraduate and incoming graduate Earth Sciences students. Eugene, OR
- Teaching Assistant, University of Oregon** Jan 2020 – Present
ERTH 306: Volcanoes and Earthquakes
ERTH 137: Mountains and Glaciers
GEOL 202: Earth's Surface and Environment
Eugene, OR
- SPICE BEST Volunteer, Eugene School District 4J** Winter 2020
Lead science workshops for middle school students. Eugene, OR
- JUMP Mentor, Women in Graduate Sciences, UO** Oct 2019 – Jun 2020
Mentored undergraduate STEM student. Eugene, OR
- Geology Tutor, BYU Athletic Dept.** Oct 2018 – Apr 2019
Tutored athletes in various geology courses. Provo, UT

CONFERENCES AND PRESENTATIONS

- T. Nye, and D. Melgar (2021), *FakeQuakes Tutorial*, lecture and lab, Remote Online Sensing for Emerging Seismologists (ROSES) 2021, Virtual.
- T. Nye, E. King, A. Klimasewski, V. J. Sahakian, Annemarie Baltay (2021), *San Francisco Bay Area Kappa Model*, oral presentation, SSA 2021, Virtual.

T. Nye, and D. Melgar (2021), *FakeQuakes Tutorial*, live demonstration, SSW 2021, Virtual.

T. Nye, V. J. Sahakian, and D. Melgar (2021), *Characterizing tsunami earthquake rupture parameters with forward modeling and near-field geophysical data*, poster, SSW 2021, Virtual.

T. Nye, V. J. Sahakian, and D. Melgar (2020), *Characterizing tsunami earthquake rupture parameters with forward modeling and near-field geophysical data*, oral presentation NH017-04, AGU 2020, Virtual.

T. Nye, and R. Harris (2019), *Modeling of stress accumulation along faults in Sumatra for use in seismic hazard evaluation*, oral presentation, BYU Student Research Conference, Provo UT, 23 March.

T. Nye, K. Allstadt, E. Thompson, and B. Worden (2018), *Advanced ground motion characterization in ShakeMap modeling energy-related ground motion parameters*, poster S33E-0634, AGU 2018, Washington D.C., 10-14 December.

T. Nye, J. McBride, and S. Nelson (2018), *Geophysical study of Nauvoo Illinois*, oral presentation, BYU College Volunteer Leadership Council Meeting, Provo UT, 12 October.

T. Nye, and J. McBride (2018), *Geophysical exploration of the Hurricane Fault and its use in determining fluid discharge sites in complex fault zones at Pah Tempe Hot Springs, Hurricane, Utah*, oral presentation, BYU Student Research Conference, Provo UT, 3 March.

PROFESSIONAL AFFILIATIONS

Member, American Geophysical Union. 2018 – Present

Member, Seismological Society of America. 2018 – Present