

TARA NYE

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EDUCATION

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

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

AWARDS

Warren DuPre Smith Scholarship Spring 2020
Promising Scholar Award Fall 2019
Kathryn L. Simpson Women in Science Scholarship Fall 2018 – Winter 2019
J. Keith Rigby Scholarship Fall 2016 & Winter 2017

SKILLS

Programming Languages: Python, MATLAB, Julia
Seismic Processing/Interpretation: ObsPy, 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 produce a Kappa map 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

GPR Survey, Nauvoo, IL Collection of GPR data to identify a buried foundation.	Sep 2018
S-Wave Seismic Survey, outside Socorro, NM Conduction of seismic survey for experience during an internship orientation.	May 2018
Geochemical Survey, Virgin River, Hurricane, UT Collection of geochemical data in the Virgin River to correlate with thermal springs.	Sep 2017
P-Wave Seismic Survey, Hurricane, UT Conduction of seismic survey to correlate faults and fracture zones with thermal springs.	Aug 2017

COMMITTEES

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

TEACHING AND MENTORING

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

CONFERENCES AND PRESENTATIONS

- T. Nye, E. King, A. Klimasewski, V. J. Sahakian, Annemarie Baltay (2021), San Francisco Bay Area Kappa Model**, oral presentation (TBD), SSA 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