Thi Truong

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EDUCATION

Oregon State University, Corvallis, OR, USA

- Doctor of Philosophy (Ph.D.) in Geology 2017 – Present
  - Dissertation: Noble gas and volatile composition of the mantle source of Lō‘ihi Seamount, Hawaiian Islands

University of California, San Diego, La Jolla, CA, USA

- Master of Science (M.S.) in Earth Sciences 2015
  - Thesis: Trace element abundances and Sr-Nd-Pb isotopic constraints on the petrogenesis of Juan Fernandez lavas
- Bachelor of Science (B.S.) in Earth Sciences/Geochemistry 2011
- Bachelor of Arts (B.A.) in History 2011

AWARDS & FELLOWSHIPS

GSA Graduate Student Research Grant ($2,440) 2021
GSA Harold T. Stearns Fellow 2021
Center for Diverse Leadership in Science Fellow ($1,000) 2021
President’s Commission on the Status of Women Community Builder Award (OSU) 2020
ARCS Foundation Scholar ($18,000) 2017 – 2019
William Taubeneck Fellowship (OSU) ($500) 2017

PUBLICATIONS

JOURNALS

(in prep) **Truong, T.B.**, Graham, D.W., Michael, P.M., Garcia, M.O.. Helium, Volatile and Trace Element Geochemistry of Deep Rift Zone Lavas from Lō‘ihi Seamount, Hawaiian Islands.

Truong, T.B., Castillo, P.R., Hilton, D.R., Day, J.M.D., (2018). The trace element and Sr-Nd-Pb isotope geochemistry of Juan Fernandez lavas reveal variable contributions from a high-$^{3}He/^{4}He$ mantle plume. *Chemical Geology* (476), 280-291, doi:10.1016/j.chemgeo.2017.11.024

CONFERENCES

Sanchez-Rios, A., McCracken, M., Treviño-Peña, M., Chan, A., **Truong, T.B.**, Wong-Ala, J.A.T.K., (2020). Workshop: Creating our own spaces of inclusion: Advocating for equity by women graduate students of color in predominantly white STEM fields. *Society for Advancement of Chicanos/Hispanics and Native Americans in Science*. Virtual. Oral.

Sanchez-Rios, A., McCracken, M., Treviño-Peña, M., Waite, J., Chan, A., **Truong, T.B.**, Wong-Ala, J.A.T.K., Cosgrove, C.L., (2020). Creating Spaces to Unpack Diversity in Physical Sciences. *Ocean Sciences Meeting*, San Diego, CA, USA. Oral.

Truong, T.B., Graham, D.W., Michael, P.M., Garcia, M.O. (2019).$^{3}He/^{3}He$, $\delta^{13}C$ and $CO_2/^{3}He$ Systematics of Deep Rift Zone Lavas from Lō‘ihi Seamount. *American Geophysical Union Fall Meeting*, San Francisco, CA, USA. Poster.

RESEARCH

PhD Research Project: Noble Gas, Volatiles, and Trace Elements of Loihi Lavas
Noble Gas Laboratory, CEOAS, Oregon State University 2019 – Present

- NSF-funded project to study C-He isotopes at Loihi Seamount and implications for mantle dynamics.
- Prepared 53 submarine glass samples from Loihi seamount and analyzed for CO_2-He concentrations and isotopes in melt/vesicles by noble gas mass spectrometry (MS), trace elements by laser ablation-ICP-MS.

PhD Research Project: Helium and Olivine-hosted Melt Inclusion Study of Kauai Lavas
Noble Gas Laboratory, CEOAS, Oregon State University 2017 – 2019

- Picked olivine phenocrysts from 11 basaltic lavas for noble gas-CO_2 analyses, ultrasonic cleaned, weighed and loaded in stainless steel crushers
- Operated Nu Noblesse mass spectrometer for vesicle Helium isotopes and CO_2 manometry
- Operated 1-atm Deltech furnace at 1200°C to homogenize olivine phenocrysts at controlled oxygen fugacity and pressure

MS Research Project: Trace Element and Sr-Nd-Pb of Juan Fernandez Lavas
Geoscience Research Division, Scripps Institution of Ocean., UCSD 2011 – 2013

- Picked olivine phenocrysts from 6 crushed basalts and created 23 sample solutions from basaltic lavas to diluted target concentration
- Performed cation exchange chemistry and created standard solutions in Class 100 clean labs
- Operated ICP-MS and TIMS, prepared calibration lines, and processed data for trace element concentrations, Sr, Nd, Pb double spike corrections

CRUISES

SO265 Evolution of the Shatsky Rise Hotspot System (40 days) 2018
MV1213 Exploration of Young Volcanic Rift Zones (12 days) 2012

PROFESSIONAL EXPERIENCE

Leader, Unpacking Diversity Professional Learning Community
Oregon State University 2018 – 2021

- Initiated, planned, and executed continuous (4 year) campus seminar series. Organized 10 facilitated talks and 2 public keynote events, in total attracting 600+ attendees from 20+ institutions.
- Raised a total of $11,900 over 3 years of fundraising for keynote events about graduate student persistence outcomes and transformational leadership. Over the course of my leadership, funding has increased 363%.
- Expanded partnerships among campus offices and non-profit organizations. Communicated with key stakeholders about scope and budget, achieved goals in a timely manner.
- Collaborated with University Survey Center to design attendee surveys for empirical studies to assess social justice learning efficacy and impact in STEM settings. Majority of attendees indicated an increased understanding of topics and high likelihood of sharing insights with colleagues.
- Created website in accordance with digital accessibility recommendations, collated resources relevant to diversity in the Earth Sciences for on-campus and off-campus network

Facilitator, "Next Generation Geoscience Leaders" Workshop
Pardee Symposium, P4 – Geological Society of America Conference Oct 2020

- Developed workshop materials for geoscientists to strategize for excellence in diversity and inclusion.
- Invited participants to identify community needs, institutional resources, write action plans
- >50% of 120 workshop participants submitted action plans. 150 attended the post-workshop panel

TEACHING

Oregon State University, Corvallis, OR

- Physical Geology Lab Fall 2021
- Earthquakes in the Pacific Northwest Spring 2021
- Living with Active Cascades Volcanoes Spring 2021
- Petrography Lab Spring 2018
- Petrology Lab(+field trip) Winter 2018
- Mineralogy Lab (+field trip) Fall 2017
- Global Change/Earth Science Fall 2017

Grossmont-Cuyamaca Community College, San Diego, CA

- Oceanography Laboratory (+field trip) Fall 2014

University of California, San Diego, La Jolla, CA

- Natural Disasters (+field trip) Fall 2012
- The Oceans Fall 2011

SKILLS

LABORATORY

Clean room procedures, sample preparation for trace element and isotope analyses, isodynamic magnetic separation, isotope dilution, ion-exchange chemistry, inductively coupled plasma mass spectrometry (ICP-MS), thermal ionization mass spectrometry (TIMS), noble gas mass spectrometry, petrographic microscopes, resin casting and polishing for geologic samples, 1-atm furnace operation

TECHNICAL

Microsoft Office (Word, Excel, Powerpoint), LaTeX, HTML, Adobe Photoshop, Adobe Illustrator, Aabel, ioGAS, IgPet, ImageJ/Fiji, Blob3D, Transcription

LANGUAGES

English (Native), Vietnamese (conversational), Spanish (conversational)

SERVICE & OUTREACH

Guide, Rock/Mineral Lab Tour for Louis Stokes Alliances for Minority Participation students
CEOAS, Oregon State University — Sep 2019

- Designed a 1-hour hands-on activity to explore geology and mineralogy with birthstones, and delivered lesson 3 times to 20 undergraduate LSAMP first year students (total: 60).
- Created two classroom sets of 12 birthstone minerals (1-10 specimens each), arranged in January to December sequence. Prepared lecture content to scaffold learning concepts from beginning to end.

Guest Speaker, Undegraduate Geoclub's Lecture Series
Oregon State University — Jan 2019

- Talk Title: "Shatsky Rise Expedition and a primer on oceanographic cruise research"

Panelist, Undergraduate Geoclub's Graduate Student Q&A Workshop and Panel
Oregon State University — Feb 2018

CERTIFICATES

CORA Teaching Men of Color in the Community College	2016
CSET 122. California Subject Examinations for Teachers – Earth & Planetary Science	2014
CSET 126 Earth & Planetary Science Specialized	2014
CBEST. California Basic Educational Skills Test	2013

PROFESSIONAL AFFILIATIONS

American Geophysical Society
Geological Society of America

[*CV compiled on 2021-10-23*]