

Thi Truong

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EDUCATION

Oregon State University, Corvallis, OR, USA

- Doctor of Philosophy (Ph.D.) in Geology 2017 – 2023
 - Dissertation: [Helium, volatile and Pb isotope variability from pre-shield to early shield volcanism at Kama'ehuakanaloa \(formerly Lō'ihi\) Seamount, Hawaiian Islands](#)
 - Committee: Adam Kent (Chair), Anthony Koppers, Christopher Russo, Jennifer Engels

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](#)
 - Committee: Paterno Castillo (Chair), James Day, David Hilton
- Bachelor of Science (B.S.) in Earth Sciences/Geochemistry 2011
- Bachelor of Arts (B.A.) in History 2011

AWARDS & FELLOWSHIPS

- Outreach Accomplishment Award (OSU) 2022
- GSA Graduate Student Research Grant and Harold T. Stearns Fellow (\$2,440) 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

Graham, D. W., Michael, P. J. & **Truong, T.B.** (2023). Carbon isotope composition of basalts from Loihi Seamount: Primordial or recycled carbon in the Hawaiian mantle plume? *Earth and Planetary Science Letters* (617), 118248, doi: [10.1016/j.epsl.2023.118248](https://doi.org/10.1016/j.epsl.2023.118248)

Sanchez-Rios, A., **Truong, T.B.**, Wong-Ala, J. A. T. K., McCracken, M., Treviño-Peña, M. (2023). Unpacking Diversity: A grassroots initiative and its institutional evolution. *The Oceanography Society Special Issue*, 36(4), 152–157, doi: [10.5670/oceanog.2024.128](https://doi.org/10.5670/oceanog.2024.128)

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-³He/⁴He mantle plume. *Chemical Geology* (476), 280-291, doi: [10.1016/j.chemgeo.2017.11.024](https://doi.org/10.1016/j.chemgeo.2017.11.024)

SERVICE

- ASPIRE Geoscience Immersive Institute, Participant 2025 – Present
- UCI Association for Disabled Faculty & Staff Survey Working Group 2024 – Present
- Steering Committee, Asian Americans and Pacific Islanders in Geoscience 2021 – Present
- Peer Reviewer, *Nature Communications* 2022 – 2023
- Advisory Committee, AGU Chapman Second National Conference 2022
- Coordinator, Geology and Geophysics Winter Seminar, OSU 2020 – 2021

**RESEARCH
EXPERIENCE**

Postdoctoral Scholar, [Climate Justice Initiative](#)

Department of Earth System Science, University of California, Irvine 2023 – Present

- Oversee project design, policies, and implementation of seven community-engaged research projects with four local Orange County, California community-based organizations, including Orange County Environmental Justice (OCEJ) and Sacred Places Institute for Indigenous Peoples (SPI)
- Conduct learning needs assessments, deliver workshops and training sessions about Earth's carbon cycle, U.S. Census and geospatial data collection and visualization, community-based research best practices, data sharing agreements, [digital accessibility](#)
- Served on review committee for 55 Junior Specialist/post-baccalaureate fellow applications, co-developed employee onboarding handbook and self-paced eLearning assessment
- Serve as Canvas LMS administrator for team of 5 co-instructors for a yearlong practicum course, publishing weekly announcements, creating assignments for certificate program milestones, and creating resource pages. Adapted UCI DTEI Canvas template to suit the needs of the diverse programmatic needs for the Canvas course to serve pedagogical and community-based research project goals
- Provide technical, budgeting, reporting for various research methods (listening sessions, focus groups, water chemistry analysis, survey design, mapping), in addition to coordinating MOUs, collaboration agreements, dissemination plans
- Contributed Vietnamese translation for logos and advised recruitment strategies to Vietnamese communities in an NIH-NSF funded [childhood lead contamination study](#)

Graduate Student Researcher, Pb Isotope Analyses of Kama'ehuakanalao Lavas

W.M. Keck Collaboratory for Plasma Spectrometry, Oregon State University 2021-2022

- Analyzed Pb isotopes from 28 basaltic glass samples from Kama'ehuakanalao Seamount to constrain spatial/temporal evolution from pre-shield to shield volcanic stage at a single volcano.
- Digested, purified, separated Pb with 2-stage anion exchange chemistry.
- Measured Pb isotopes with multi-collector (MC) inductively coupled plasma mass spectrometry (ICP-MS), processed data with standard sample bracketing and exponential correction.

Graduate Student Researcher, Noble Gas, Volatiles, Trace Elements of Kama'ehuakanalao Lavas

Noble Gas Laboratory, CEOAS, Oregon State University 2019 – 2021

- NSF-funded project to study C-He isotopes at Kama'ehuakanalao Seamount and processes governing behavior of volatile elements in deeply erupted submarine lavas
- Prepared 53 submarine glass samples for noble gas mass spectrometry. Analytes include CO₂, He concentrations and isotopes by crushing under vacuum and high-temperature furnace melting.
- Prepared polished glass mounts for 52 samples, performed *in situ* analysis of trace elements in glasses by laser ablation (LA)-ICP-MS.

**LEADERSHIP
EXPERIENCE**

Communications Director & Project Manager, [AAPI in Geosciences \(AAPIIG\)](#) 2022 – Present

- Retain membership and engagement of 500+ Slack users and 600+ listserv members representing AAPI individuals in academia, alumni, employee resource groups, non-profits, government agencies
- Manage remote and cross-institutional team of 10-15 volunteer steering committee members to deliver over 50 digital, hybrid, and in-person events, co-write op-eds and commentary pieces, pursue policy endorsements, and lead collaborations with other geoscience identity-based affinity groups
- Developed knowledge base/repository, oversaw working group and broader organizational continuity plans, documented workflows, organized retrospective meetings for continuous improvement of programming (including in-person/hybrid/virtual events)
- Wrote onboarding protocol and timeline to provide structured roles for incoming steering committee members, who had a range of previous organizational experience
- Launched AAPI geoscientists in mentoring program, and initiated collaboration with AGU Mentoring 365 to become a partner organization and pilot Mentoring 365 Circles platform

Leader, Unpacking Diversity Professional Learning Community

Oregon State University

2018 – 2021

- Organized 10 seminars and 2 keynote events featuring nationally recognized experts from ethnic studies, sociology, disability studies, etc. Attracted 600+ attendees from 20+ institutions during in-person, hybrid, and virtual events.
- Published narrative of organizing work, blueprint, impact and recommendations in an open-access peer-reviewed publication in *Oceanography*: [10.5670/oceanog.2024.128](https://doi.org/10.5670/oceanog.2024.128)
- Raised a total of \$14,435 over 3 years of fundraising for public DEI events. Over the course of my leadership, fundraising increased by 140% and the number of co-sponsors doubled.
- Collaborated with University Survey Center to design attendee surveys for empirical studies to assess social justice learning efficacy and impact in STEM settings

TEACHING

COURSES WITH 20+ HOURS AS CLASSROOM, FIELD AND/OR SECTION INSTRUCTOR

(IOR) = Instructor of Record

Oregon State University, Corvallis, OR.

- eGEO 380. (IOR) Earthquakes in the Pacific Northwest (Enrolled: 40) Summer 2022
- GEO 201. Planet Earth Laboratory (Enrolled: 45) Fall 2021
- GEO 415. Petrography Laboratory (Enrolled: 18) Spring 2018
- GEO 315. Petrology Laboratory (Enrolled: 14) Winter 2018
- GEO 310. Mineralogy Laboratory (Enrolled: 13) Fall 2017

Grossmont-Cuyamaca Community College, San Diego, CA

- OCEA 113. (IOR) Oceanography Laboratory (Enrolled: 24) Fall 2014

University of California, San Diego, La Jolla, CA

- SIO 15. Natural Disasters (Enrolled: 400) Fall 2012
- SIO 30. The Oceans (Enrolled: 110) Fall 2011

List of courses with asynchronous instruction available upon request

PRESENTATIONS, WORKSHOPS, SYMPOSIA ORGANIZED

RESEARCH

- **Truong, T.B.** (2024). From Geoscience to Community Engagement: The Evolving Role of Postdoctoral Scholars in Collaborative Initiatives. *Geological Society of America (GSA) Annual Meeting*, Anaheim, CA, USA. Oral. ([Abstract and Presentation](#)), doi: 10.1130/abs/2024AM-405518
- (Invited) **Truong, T.B.**, Graham, D.W., Michael, P.M., Garcia, M.O. (2021). $^3\text{He}/^4\text{He}$, CO_2 , and H_2O , and the Presence of Primordial and Recycled Components in Lō'ihi Seamount Lavas. *American Geophysical Union Fall Meeting*, New Orleans, LA, USA. Oral. ([YouTube Video](#))
- **Truong, T.B.**, Graham, D.W., Michael, P.M., Garcia, M.O. (2019). $^3\text{He}/^4\text{He}$, $\delta^{13}\text{C}$ and $\text{CO}_2/^3\text{He}$ Systematics of Deep Rift Zone Lavas from Lō'ihi Seamount. *AGU Fall Meeting*, San Francisco, CA, USA. Poster.
- **Truong, T.B.** (2014). Darwin's reports of anomalous activity of an extinct volcano at Juan Fernandez. *Geological Society of America Section/International Commission on History of Geological Sciences Joint Meeting*, Monterey, CA, USA. Poster.

CONFERENCE FACILITATION

- Co-Convener with Pham, K. and Reano, D. (2024). GSA Topical Session: “Intention Is Not Enough: Real-life Power Imbalances in the History of Geosciences and Possible Futurities”. 13 oral presentations from academic and government researchers. Endorsed by GSA Geoscience Education, Geology and Society, Geoarchaeology, Geology and Health, Soils and Soil Processes Divisions. GSA Annual Meeting. ([Website](#))
- Workshop: “On white mentors”. Attendees included early career scholars, faculty, administrative staff from 20+ institutions, Aug 16 2022. AGU Chapman Conference. ([Google Slides](#))
- Workshop: “Next Generation Geoscience Leaders action planning”. Attendees were postdoctoral scholars and early career scientists from 3 institutions, Oct 27 2020. GSA Pardee Symposium.
- Workshop: 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*. ([Blog post](#))
- Panel: 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.

ASIAN AMERICANS AND PACIFIC ISLANDERS IN GEOSCIENCES (AAPIIG)

- Presentation: “NSF Funding and Racial Disparities”, Speaker: Christine Y. Chen, May 31 2023
- Discussion: “Funding and racial disparities”, for BIPOC-only audience in collaboration with BIPOC leaders from several affinity groups, scheduled May 31, 2023
- Facilitated Discussion: ”Mentoring Pods Cycle 2 Kick-off Meeting”, about minoritized student experiences in mentoring relationships, co-facilitated with AGU Mentoring 365 Team, Oct 14, 2022
- Panel: “International Scholars in Geosciences”, Speakers: Alejandra Sanchez-Rios, Yackar Mauzole, Yige Zhang, May 27 2022

CERTIFICATES	LinkedIn Certificate: Instructional Design: Needs Analysis	2024
	WebAIM Accessible Documents	2023
	CITI Human Subject Research for Social/Behavioral Investigators Basic #57590682	2023
	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

OUTREACH AND ENGAGEMENT

Developer and Content Expert: Minerals in Birthstones and Household Goods

CEOAS, Oregon State University 2022 – 2023

- Delivered birthstone and gemstone-based learning activity to 50+ Oregon students grades 6-12. Engaged with students from South Albany High School, and the Confederated Tribes of Grand Ronde. See slides: [Birthstone Identification: A Collaborative Model for Creating Outreach “Kits”](#)
- Designed a tabling activity and 1-hr lesson plan for K-12 students to learn observational skills about minerals present in the context of everyday household goods.
- Implemented continuous improvement to format, access, and learning outcomes to prepare an activity guide and ready-to-use kits for 50+ Oregon K-12 teachers participating in NSF-funded SMILE after-school programs.

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.

Earth Science Judge (Grades 6-12), Orange County Science Fair

Costa Mesa, CA

Apr 2014

PROFESSIONAL AFFILIATIONS American Geophysical Society (AGU)
Geological Society of America (GSA)

SKILLS

LABORATORY

Sample processing: Petrographic microscopes, resin casting and polishing for geologic samples, Deltech furnace operation, isodynamic magnetic separation, mineral separation, hazardous and radioactive waste handling

Clean Room: Acid cleaning, performing titrations, preparing stock solutions, sample preparation for trace element and isotope analyses, digestion of rock powders and glass, dilution calculations, column calibrations, ion-exchange chemistry

Instruments: Inductively coupled plasma mass spectrometry (ICP-MS), thermal ionization mass spectrometry (TIMS), noble gas mass spectrometry, laser ablation (LA)-ICP-MS, multi-collector (MC)-ICP-MS

TECHNICAL

Software: Microsoft Office (Word, Excel, Powerpoint), Articulate Storyline, Adobe Captivate, Adobe Photoshop, Adobe Illustrator, Fiji/ImageJ, Blender, Final Cut Pro, Adobe Premiere Pro

Programming: R, Markdown/Quarto, L^AT_EX (desktop and Overleaf), HTML5, Python, Google Colab

Collaboration: Google Suite, MURAL, Slack

Geology: Google Earth, GeoMapApp, ioGAS, IgPet, Aabel, Blob3D

LANGUAGES

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

[CV compiled on 2025-09-22]