KAYLA R. SORENSON

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING
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EDUCATION

PORTLAND STATE UNIVERSITY
Ph.D. in Civil and Environmental Engineering *Expected June 2025*
Specialty: Geotechnical Engineering
Advisors: Arash Khosravifar & Diane Moug
In-Progress GPA: 4.00

PORTLAND STATE UNIVERSITY
Master of Science in Civil and Environmental Engineering *Awarded June 2021*
Advisors: Arash Khosravifar & Diane Moug
Thesis: *Field Trials and Long-Term Monitoring of Microbially-Induced Desaturation for the Treatment of Liquefiable Silty Soils.*
GPA: 3.84

PORTLAND STATE UNIVERSITY
Bachelor of Science in Civil Engineering *Awarded June 2019*
GPA: 3.53

RESEARCH EXPERIENCE

PORTLAND STATE UNIVERSITY
Graduate Student Researcher *September 2019 to Present*

- Gathered and monitored in-situ data regularly from the microbially-induced desaturation (MID) field trial site located in Portland, Oregon. Data collected included pressure wave and shear wave velocities, water table levels, volumetric moisture contents, and water salinity.
- Performed laboratory experiments to determine soil classification, fines content, clay, silt, and coarse-grained soil percentages, degree of saturation, and grain size analysis. Prepared and tested soil specimens for consolidation and liquefaction analyses within the GeoComp ShearTrac-II Cyclic Direct Simple Shear (CDSS) and GeoComp LoadTrac-III devices.
- Utilized FLAC3D to run multiple iterations modeling rock-socketed piles to back-calculated p-y curves from field load tests.

RESEARCH EXPERIENCE (CONT.)

PORTLAND STATE UNIVERSITY

Undergraduate Student Researcher *December 2018 to September 2019*

- Developed a method in conjunction with a current graduate student on the project *The Effect of Shear Loading Frequency on Undrained Cyclic Shear Response of Low Plasticity Silt*, attempting to prepare identical remolded samples for a repeatable testing regimen.
- Collaborated on a multi-university team to perform the first field trials of MID within the United States. Helped with planning, installing, performing, and monitoring two sites that were used for MID field trials. Collaborated with Arizona State University's Center for Bio-mediated and Bio-inspired Geotechnics. and the Natural Hazards Engineering Research Infrastructure at the University of Texas at Austin.
- Worked under the direction of Dr. Arash Khosravifar on the National Science Foundation's Research Experience for Undergraduates project *Pile Foundations Under Inertia and Liquefaction-Induced Lateral Spreading.*

INDUSTRY EXPERIENCE

PORTLAND STATE UNIVERSITY *April 2019 to Present*

Consultant Testing

Portland Oregon

- Prepared specimens from Shelby tubes for undisturbed testing. Preparation included cutting the Shelby tube to a workable sample length, extruding soil with minimal disturbance, and trimming the specimen into a 1" high, 2.5" diameter puck.
- Performed consolidation and CDSS tests with the prepared specimens. CDSS testing included both strain- and stress-controlled cyclic parameters, monotonic shear, post-cyclic monotonic shear, and post-cyclic volumetric strain.
- Performed Bender Element tests to determine the soil's shear wave velocity.
- Soils tested include saprolite, varved clay, mixed earthen dam fill, silty sand, low plastic silt, highly liquefiable soil.

GEODESIGN INC. *June 2018 to September 2018*

Construction Observation Intern

Wilsonville Oregon

- Performed asphalt density testing, in-situ compaction and moisture contents, subgrade probing, and laboratory soil classification. Observed cement amendment soil procedures, tested tieback anchor installations, retaining wall installation, solider pile installation, and proof rolls.

PUBLICATIONS

JOURNAL PAPERS

Moug, D., **Sorenson, K.,** Khosravifar, A., Preciado, A.M., Stallings Young, E., van Paassen, L., Kavazanjian, E., Zhang, B., Stokoe, K., Menq, F., Wang, Y. "Field Trials of Microbially Induced Desaturation in Low-Plasticity Silt". *Journal of Geotechnical and Geoenvironmental Engineering* 148.11 (2022): 05022005.

Ribeiro, B., Rasanen, R., Sanger, M., Acosta Reyes, D., Martinez, E., Shepherd, T., Nishanthi Perera, K., Justinak, H., Martinez, J., Alemu, B., Bastola, A., Bonus, J., Cissna, A., Colbern, S., Covarrubias Ornelas, A., Diaz, Y., Fulmer, E., Harne, A., Jarman, F., Sousa, D., Mattson, A., McGinn, L., Parrott, E., Petersen, N., Refaei, R., Rosso, W., Slothower, T., **Sorenson, K.,** Wang, H., Yazdani, E. "A New Approach to Graduate Student Symposiums: Perspective and Insights from the 2023 Pacific Northwest Geotechnical Graduate Student Symposium". *Under Review, ASCE Journal of Civil Engineering Education, 2025.*

CONFERENCE PAPERS

Sorenson, K., Khosravifar, A., Moug, D. "Cyclic and Post-Cyclic Shear Responses of Intact Specimens from Three Alluvial Fine-Grained Soils". *Draft accepted, 2025 ASCE Geotechnical Frontiers Conference, 2024.*

Barati-Nia, A., Parrott, A.E., **Sorenson, K.,** Moug, D., Khosravifar, A. "Comparing Cyclic Direct Simple Shear Behavior of Fine-Grained Soil Prepared with SHANSEP or Recompression Approaches. *Draft accepted, 2025 ASCE Geotechnical Frontiers Conference, 2024.*

Sorenson, K., Khosravifar, A., Moug, D., LaVielle, T., Beaty, M. "Undrained Cyclic Shear Behavior of Saprolite Soil". *ASCE Geo-Congress Conference Proceedings, 2023.*

Sorenson, K., Covarrubias Ornelas, A., Moug, D., Khosravifar, A. "Incorporating Hands-on Activities into an Undergraduate Geotechnical Engineering Course During Remote Learning". *12th National Conference on Earthquake Engineering Proceedings, 2022*

Sorenson, K., Preciado, A.M., Moug, D., Khosravifar, K., van Paassen, L., Kavazanjian, E., Stokoe, K., and Menq, F. "Field Monitoring of the Persistence of Microbially Induced Desaturation for Mitigation of Earthquake Induced Soil Liquefaction in Silty Soil". *ASCE Lifelines Conference Proceedings, 2021.*

Preciado, A.M., **Sorenson, K.,** Khosravifar, A., Moug, D., Stokoe, K., Menq, F., Zhang, B. "Evaluating Cyclic Loading Response of a Low Plasticity Silt with Laboratory and Field Cyclic Loading Tests". *ASCE Lifelines Conference Proceedings, 2021.*

PUBLICATIONS (CONT.)

CONFERENCE PAPERS

Moug, D., Khosravifar, A., Preciado, A.M., **Sorenson, K.,** Stokoe, K., Menq, F., Zhang, B., van Paassen, L., Kavazanjian, E., Stallings Young, E., Wang, Y. (2020) "Field Evaluation of Microbially Induced Desaturation for Liquefaction Mitigation of Silty Soil". *17th World Conference of Earthquake Engineering.*

THESIS

Sorenson, K. "Field Trials and Long-Term Monitoring of Microbially-Induced Desaturation for the Treatment of Liquefiable Silty Soils". *Portland State University Master's Thesis, 2021.*

PRESENTATIONS

Sorenson, K. Microbially Induced Desaturation: Five Years After Treatment. *Geoseismic Issues in Bridge Design Subcommittee Meeting, 2025 Transportation Research Board Annual Meeting. Podium presentation, January 2025.*

Sorenson, K. "Mitigating Liquefaction Risk for Transportation Infrastructure using Microbially Induced Desaturation". *2025 Annual Meeting, Transportation Research Board. Poster presentation, January 2025.*

Sorenson, K. Microbially Induced Desaturation: Five Years After Treatment. *2024 Portland State University Geotechnical Graduate Student Symposium. Podium presentation, November 2024.*

Sorenson, K. Cyclic Shear Behavior and Longevity of Microbially Induced Desaturation in Liquefiable Silty Soil. *2024 Portland State University Geotechnical Graduate Student Symposium. Poster presentation, November 2024.*

Sorenson, K. "The Effect of the Degree of Saturation on the Liquefaction Resistance of Non-Plastic and Low-Plastic Soils". *2024 Pacific Northwest Graduate Student Symposium at Oregon State University. Poster presentation, May 2024.*

Sorenson, K. "Liquefaction Mitigation beneath Existing Transportation Infrastructure using Microbially Induced Desaturation". *2024 Annual Meeting, Transportation Research Board. Poster presentation, January 2024.*

Sorenson, K. "Field Trials of Microbially-Induced Desaturation for Earthquake Liquefaction Mitigation in Portland, Oregon". *2023 Annual Meeting, Center for Bio-mediated and Bio-inspired Geotechnics (CBBG). Podium presentation, October 2023.*

PUBLICATIONS (CONT.)

PRESENTATIONS

Sorenson, K. "Field Trials and Long-Term Monitoring of Microbially-Induced Desaturation for the Treatment of Liquefiable Silty Soils". *Dr. Steven L. Kramer Honorary Technical Symposium. Poster presentation, May 2023.*

Sorenson, K. "Undrained Cyclic Shear Behavior of Saprolite Soil". *ASCE GeoCongress Conference. Podium presentation, March 2023.*

Sorenson K. Panelist, Leveraging the Virtual Classroom: Inspiring the Next Generation of Earthquake Engineers. *"*Incorporating Hands-on Activities into an Undergraduate Geotechnical Engineering Course During Remote Learning". *12th National Conference on Earthquake Engineering. Podium presentation, June 2022.*

Sorenson K. Panelist, Engineers Rising Student Session. *Professional Engineers of Oregon Annual Conference, May 2022.*

Sorenson K. "Field Monitoring of the Persistence of Microbially Induced Desaturation for Mitigation of Earthquake Induced Soil Liquefaction in Silty Soil". *ASCE-UCLA Lifelines Conference. Virtual podium presentation, February 2022.*

Almoumen, R. and **Sorenson, K.** "The Effect of Shear Loading Frequency on Undrained Cyclic Shear Response of Low Plasticity Silt". *Oregon Department of Transportation's Geology and Geotechnical Technical Transfer Meeting. Research presentation, July 2019.*

TEACHING EXPERIENCE

TEACHING ASSISTANT, PORTLAND STATE UNIVERSITY

CE341L & CE345L – Introduction to Soil Mechanics: Laboratory

April to June 2020, 2021, 2022, & 2024

September to December 2020, 2021, & 2022

- Prepared 20-to-30-minute lectures that introduced upper-level undergraduate students to basic geotechnical concepts and theories. Demonstrated and facilitated laboratory and field analysis methods, including Atterberg Limits, field identification, compaction, groundwater seepage, consolidation, sample preparation and soil shear strength.
- During remote teaching, performed the laboratory experiments virtually and compiled additional resources for students. Provided student feedback and helped to assist conceptual understanding during weekly office hours.
- Held weekly office hours to assist students with their understanding of the course material and laboratory concepts and results.
- Contributed to the success of the classroom by ensuring that students received timely and meaningful feedback on their weekly assignments.

TEACHING ASSISTANT, PORTLAND STATE UNIVERSITY

CE444 – Geotechnical Design

January to March 2021 & 2025

- Improved student outcomes by offering regular opportunities for personalized feedback and support through weekly office hours.
- Contributed to the success of the classroom by ensuring that students received timely and meaningful feedback on their weekly assignments.

TEACHING ASSISTANT, PORTLAND STATE UNIVERSITY

CE443/543 – Introduction on Geotechnical Earthquake Engineering

January to March 2020 & 2022

April to June 2023

- Contributed to the success of the classroom by ensuring that students received timely and meaningful feedback on their weekly assignments.

SERVICE

PORTLAND STATE UNIVERSITY DIGITAL MAGAZINE *April 2024*

I was interviewed about my research and my academic journey for the cover story of the April 2024 issue of PSU Digital Magazine. I was also filmed both in the lab and at the field site for an accompanying digital short. Article and video URL: https://www.pdx.edu/magazine/news/digging-deep

TRAININGS AND WORKSHOPS ATTENDED

CPT INTERPRETATION, APPLICATIONS IN SILTS AND GRAVELS

ConeTec *November 2024*

This short course covered topics such as the importance of site characterization, CPT correlations, penetrometer types, and using CPTs in the characterization of silts and gravels. This course also included a tour of one of ConeTec's CPT trucks.

FIELD WORK SAFETY TRAINING

Chemistry Stockroom, Portland State University *May 2024*

This training covered a multitude of topics related to field work, including cultural resources and inadvertent discoveries; safety culture, emergency action plans, and determining risk assessment; and emergency preparedness including first aid basics.

TOOLS FOR REGIONAL SCALE RISK ASSESSMENTS IN THE SAN FRANCISCO BAY AREA

Younger Member Committee, Earthquake Engineering Research Institute *August 2023*

This webinar introduced and summarized a series of tools developed to perform regional risk assessments in the San Francisco Bay area. These tools were developed to capture the spatial correlation of realistic ground motions associated with a rate of occurrence at selected locations.

GEOTECHNICAL ENGINEERING, ENGINEERING GEOLOGY, AND HAZARDOUS MATERIALS DESIGN

Oregon Department of Transportation *May 2023*

Intended to exchange information between ODOT, local and other government agencies, and consultants, this forum included a variety of presentations on topics ranging from new designs, lessons learned, and case studies. Disciplines included rockfall mitigation, hazardous material case studies, liquefaction mitigation, and retaining wall challenges.

DR. STEVEN L. KRAMER HONORARY TECHNICAL SYMPOSIUM

ASCE Seattle Section, Seattle Geo-Institute, and UW CEE Dept. *May 2023*

Topics incorporating performance-based design, site response analysis non-linear dynamic analyses of dams, and system effects on liquefaction response and manifestation were included. Presentations were given from Dr. Kramer's colleagues, research collaborators, and former students.

CHEMICAL SAFETY TRAINING

Chemistry Stockroom, Portland State University *March 2023; August 2019*

Annual training covering a broad overview of the resources available on the Portland State campus. Topics include proper transportation of chemicals, chemical storage, safety policies, and proper personal protective equipment. Basic standard operating procedures were discussed, and information about more specialized trainings (i.e., radiation, field work, bloodborne pathogens) was shared.

TRAININGS AND WORKSHOPS ATTENDED (CONT.)

DIVERSITY, EQUITY, AND INCLUSION

Earthquake Engineering Research Institute via Paradigm Reach *September 2022 – May 2023*

Using short videos and an interactive workbook, participants are made aware of how current systemic barriers and stereotypes are detrimental to others and to workspace atmospheres. Courses include recognizing and mitigating microaggressions, fostering inclusion and belonging, and acknowledging conscious and unconscious biases and racisms.

RECENT PERSPECTIVES AND PRACTICES FOR SEISMIC DESIGN IN PACIFIC NORTHWEST SILTS

American Society of Civil Engineers, Geo-Institute, Oregon Section *February 2023*

A day-long short course covering geotechnical perspectives for assessing the seismic response of low to moderate plasticity silt soils. Although these soils are common in the Pacific Northwest, geotechnical engineering approaches for understanding and characterizing their seismic response are relatively new. This short course provided both a fundamental overview of these soils, including findings of recent research, as well as practical recommendations for performing site investigations, laboratory studies, and numerical estimate of seismic response.

GRADUATE TEACHING ASSISTANT ORIENTATION

Maseeh College of Engineering, Portland State University *September 2022*

A full day orientation providing relevant training and opportunities for resource sharing for the Maseeh College of Engineering. Topics included inclusive practices; effective learning environments; communication between peers, near-peers, and faculty; student sense of belonging and student success; and classroom engagement methods.

EXPLORING YOUR TEACHING PHILOSOPHIES

Maseeh College of Engineering, Portland State University *January 2022*

This 3-part workshop focused on exploring individual teaching philosophies, incorporating inclusive practices, and backwards design with equity and inclusion in mind. The first section included brainstorming as a group what learning techniques work well for us and why, the second section delved into different pedagogies and how to create inclusive spaces as a teaching assistant (whether you taught a class or just graded student work), and the third section focused on backward engineering a lesson plan based on student objectives and assessment tasks.

HONING YOUR DATA VISUALIZATION SKILLS FOR EARTHQUAKE ENGINEERING

Earthquake Engineering Research Institute, Younger Members Committee *November 2021*

A 90-minute interactive workshop teaching how to build engaging and interpretable visualizations. Topics covered included learning how to best frame your visualizations depending on the intended audience, recognizing the message that you want displayed in your data, and small group discussions on how best to present certain datasets.

TRAININGS AND WORKSHOPS ATTENDED (CONT.)

GEOSYNTHETIC REINFORCED WALLS AND SLOPES

American Society of Civil Engineers, Geo-Institute, Oregon Section *December 2021*

Geosynthetics are a popular and effective construction material. These polymeric materials, when used as reinforcement within soil, produce cost-effective geotechnical structures and provide substantial time-savings compared to conventional construction approaches. This 1-day workshop will help attendees appreciate and implement design of mechanically stabilized earth walls and slopes. Lessons learned from failed structures conclude this workshop.

LEADERSHIP EXPERIENCE

GEO-INSTITUTE GRADUATE STUDENT ORGANIZATION (GIGSO)

Webmaster, Portland State University Chapter *March 2024 to Present*

- Created and maintained upkeep of the PSU GIGSO website. Features include student profiles, outreach projects, research updates, and monthly seminars.

CIVIL AND ENVIRONMENTAL ENGINEERING ADVISORY COMMITTEE *November 2023 to Present*

- Student member advising and assisting the CEE department at Portland State University in its endeavor to provide the highest quality of education and research consistent with the needs of industry, government, community/public, service, and academic institutions.

EARTHQUAKE ENGINEERING RESEARCH INSTITUTE (EERI)

SDC Chair, Student Leadership Council (SLC) *August 2023 to May 2024*

- Collaborated with a small team of graduate students to reformat the rules of the annual Seismic Design Competition (SDC). This included changing the problem statement, building shape, dead load distribution, and geotechnical considerations.
- Assisted in organizing the in-person SDC activities, including team presentations, architectural judging, and shaking day.

EARTHQUAKE ENGINEERING RESEARCH INSTITUTE

Co-President, SLC *September 2022 to August 2023*

- Oversaw a group of 19 graduate students to update design documents, rubrics, and ground motions for the 20th annual SDC.
- Duties included: collaborating with EERI leadership to organize and integrate the SDC within the 2023 Annual Meeting; communicated with EERI subcommittees (School Earthquake and Safety Initiative, Learning from Earthquakes) and SLC members to enhance undergraduate student involvement; communicating with international student teams to disseminate vital logistical information; created, modified, and prepared necessary documents ranging from code of conduct statements to technical judging forms.

EARTHQUAKE ENGINEERING RESEARCH INSTITUTE

Secretary, SLC *September 2021 to September 2022*

- Coordinated meetings between the SLC leadership and various subcommittees SDC, Outreach, Webmasters, School Earthquake Safety Initiative (SESI), Post-Earthquake Reconnaissance Workshop (PERW) and others).
- Facilitated communications between SLC leadership and EERI staff planning the SDC portion of the 12 National Conference on Earthquake Engineering.
- Provided geotechnical answers to the SDC Chairs to facilitate evaluating the SDC team proposals, including determining site class in accordance with ASCE 7-16, and liquefaction and lateral spreading potential.

LEADERSHIP EXPERIENCE (CONT.)

EARTHQUAKE ENGINEERING RESEARCH INSTITUTE

SDC Chair, SLC *August 2020 to September 2021*

- Collaborated with a small team of graduate students to reformat the annual SDC to function in a virtual environment.
- Reconfigured the overall competition layout, including co-writing the Geotechnical Deliverable rules and grading rubric. Graded the student group submissions.

EARTHQUAKE ENGINEERING RESEARCH INSTITUTE

President, PSU Chapter *September 2020 to October 2022*

- Organized and led multiple outreach events including the 2021 Friedman Family Visiting Professional lectures and the 2021 Disaster Preparedness Event.
- Managed the undergraduate PSU SDC team, and arranged various outreach events aimed at undergraduate students, including both formal and informal events.

EARTHQUAKE ENGINEERING RESEARCH INSTITUTE

ASCE/EERI Liaison, PSU Chapters *September 2019 to June 2020*

- Coordinated the integration of the undergraduate SDC team with Portland State's ASCE student competition teams, which improved and expanded communications within the undergraduate population.

AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE)

ASCE Geo-Institute Oregon Chapter: Student Liaison *August 2021 to February 2023*

- Coordinated and helped to implement the 2021 annual short course. Presenters and topic: Dr. Dov Leschinsky and Dr. Ben Leschinsky: Geosynthetic Reinforced Walls and Slopes.
- Updated and maintained the events calendar.

OUTREACH

SATURDAY ACADEMY *January 2025*

Prepared an array of demonstrations to introduce the concept of geotechnical engineering to a group of approximately 20 high school students as part of a larger collaborative effort within the Engineering Building to showcase working laboratories. Additionally, I spent 45 minutes as a panelist for a Career Panel; conversations were informal and allowed the high school students to ask me about my education journey and any information I would like to pass on to them.

ASCE INFRASTRUCTURE REPORT CARD CHAPTER LEAD *September 2023 to September 2024*

Leading a diverse group of civil engineers in researching the current state of dam readiness in Oregon. Research includes both public and privately owned dams within the state. Overseeing the drafting the report for the 2024 Oregon Report Card for America's Infrastructure.

ST. MARY'S SCIENCE RESEARCH METHODS CLASS MENTOR *January 2024 to May 2024*

One-on-one mentoring of a high school senior to gain research experience. Mentored the student on planned future research at PSU's geotechnical field site and guided the student on in-depth research relating to various sensors that might be implemented at the site. Lab work including calibrating sensors and determining moisture content was related to real-world engineering problems.

ST. MARY'S SCIENCE RESEARCH METHODS CLASS LAB TOUR *December 2022; November 2023*

Held a 2-hour lecture and activity session tailored to a group of 20 high school seniors. Introductory soil mechanics laboratory concepts were taught and their importance in construction projects was discussed. Students gained hands-on experience performing basic soil behavior tests and witnessed how a soil will change through an array of different water contents.

OREGON E-WEEK *February 2023*

Leveraged strong interpersonal skills to engage with high school students and provided information about the importance of gaining professional engineering licensure after graduation.

ST. MARY'S SCIENCE RESEARCH METHODS CLASS MENTOR *February 2022 to May 2022*

One-on-one mentoring of a high school senior to gain research experience. Introduced and explained basic geotechnical engineering concepts, identified different types of soils, performed laboratory index testing, and related the data gathered to real-world engineering problems.

CLACKAMAS COMMUNITY COLLEGE *May 2022*

Introduced and demonstrated the concept of seepage and gradients to potential transfer students. Students calculated what the theoretical critical gradient would be for a seepage demonstration tank, and then compared their calculated values to the values measured during the demonstration.

OUTREACH (CONT.)

MESA DEMO DAY *February 2022*

Participated as an exhibitor to showcase and explain geotechnical engineering concepts to underserved middle and high school students in STEM. Outreach included talking one-on-one with interested students and showing demonstrations that relate to liquefaction.

LANE MIDDLE SCHOOL *March 2022*

Hosted two groups of 15 students and gave guided tours of the geotechnical lab spaces. Tours included explaining equipment, as well as demonstrations showcasing geotechnical engineering concepts.

DISASTER PREPAREDNESS EVENT *May 2021*

Hosted by PSU EERI, this annual event aims to strengthen the ties between the community, industry professionals, Portland State University, and government officials. The 2021 theme was Oregon's Energy Lifelines, focusing on the resiliency of Oregon's energy infrastructure and the potential environmental, health, and economic consequences of a Cascadia earthquake event.

CERTIFICATIONS AND ACCOLADES

SOCIETY OF WOMEN ENGINEERS

2023 Greeley and Hansen Nicole B. Spieles Memorial Scholarship *Awarded 2023, 2024, and 2025*

FEDERAL HIGHWAY ADMINISTRATION

Dwight David Eisenhower Transportation Fellowship *Awarded 2023 and 2024*

CORAL SALES COMPANY

Douglas P. Daniels Scholarship *Awarded 2023*

EARTHQUAKE ENGINEERING RESEARCH INSTITUTE

EERI/FEMA NEHRP Graduate Fellowship *Awarded 2023*

PORTLAND STATE UNIVERSITY

Civil and Environmental Engineering Department Scholarship *Awarded 2024*
Carl Green Endowed Graduate Fellowship *Awarded 2023*
Student Education and Travel (SET) Fund *Awarded 2022 and 2023*
Gregory K. & Mary Chomenko Hinckley Fellowship *Awarded 2021 and 2022*
Outstanding Graduate Student *Awarded 2019*

ASCE GEO-INSTITUTE

Oregon Chapter Scholarship *Awarded 2023*

WOMEN IN SCIENCE PDX

Professional Development Scholarship *Awarded 2021*

NATIONAL SCIENCE FOUNDATION

Graduate Research Fellowship Program *Honorable Mention 2021*

PROFESSIONAL AFFILIATIONS

- Earthquake Engineering Research Institute (EERI). Member ID: 32101
- American Society of Civil Engineering (ASCE). Member ID: 000011454549
- Deep Foundations Institute (DFI). Member ID: 44910
- National Society of Professional Engineers. Member ID: 300884583
- Society of Women Engineers (SWE). Member ID: 2089726
- Engineering Intern- State of Oregon. Licensure Number: 95369EL