

# TRANG T.H. NGUYEN, PH.D

Environmental Microbiologist — Biogeochemist/Soil Scientist — Ecosystem Modeler

LSE 314, Department of Biological Sciences, Arkansas State University

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✉ trnguyen@astate.edu 🌐 My Website

## EXPERIENCE

### Arkansas State University

Assistant Professor, Microbiology

August 2026 – Now

Jonesboro, Arkansas

### Bowdoin College

Visiting Assistant Professor, Earth and Oceanographic Science

July 2024 – July 2026

Brunswick, Maine

### Fulbright University Vietnam

Assistant Professor, Integrated Sciences & Science Lab Director

Jun 2022 – Jun 2024

Ho Chi Minh City, Vietnam

### University of Southern California

Postdoctoral Research Associate (until Apr 2022); Visiting Scientist, Marine Biology (since Apr 2022)

Apr 2019 – 2024

Los Angeles, California

### Oregon State University

Graduate Researcher, Crop and Soil Science

Sep 2013 – Mar 2019

Corvallis, Oregon

### Oregon State University

Graduate Teaching Assistant and Lab Instructor, Crop and Soil Science

Sep 2015 – Mar 2019

Corvallis, Oregon

## EDUCATION

### Oregon State University

PhD in Soil Science. Dissertation: "Diversity and Activity of Microbial Extracellular Peptidases in Soil"

Sep 2013 – Mar 2019

Corvallis, Oregon

### Vietnam National University of Science

BS in Environmental Sciences (Honors, High distinct, Valedictorian with Thesis)

Sep 2009 – Jun 2013

Hanoi, Vietnam

## PUBLICATIONS AND SCIENTIFIC TALKS

### Peer-Reviewed Publications

- \* **Trang T. H. Nguyen**, Emily J. Zakem, Ali Ebrahimi, Julia Schwartzman, Tolga Caglar, Kapil Amarnath, Uria Alcolombri, Francois J. Peaudecerf, Terence Hwa, Roman Stocker, Otto X. Cordero, Naomi M. Levine, 2022. "Microbes contribute to setting the ocean carbon flux by altering the fate of sinking particulates", *Nature Communications*, 13, 1657, 10.1038/s41467-022-29297-2
- \* **Trang T. H. Nguyen**, Markus Kleber, and David D. Myrold, 2019. "Contribution of Different Catalytic Types of Peptidases to Soil Proteolytic Activity", *Soil Biology and Biochemistry*, 138 (November): 107578, 10.1016/j.soilbio.2019.107578
- \* **Trang T. H. Nguyen**, David D. Myrold, Ryan S. Mueller, 2019. "Distributions of Extracellular Peptidases Across Prokaryotic Genomes Reflect Phylogeny and Habitat", *Frontiers in Microbiology*, 10, 10.3389/fmicb.2019.00413
- \* **Trang T. H. Nguyen**, Minh N. Nguyen, Anh Q. Nguyen, Anh T. Q. Nguyen, Chau T. T. Ngo, Dung H. Thai, Duc N. Nguyen, Hue T. Nguyen, Huy V. Dao, Linh H. Duong, Ngan T. Nguyen, Phuong M. Nguyen, Tuan V. Tran, and Van M. Dinh, 2026, "Microbial activation of terrestrial phylogenetic silica cycling", *Global Biogeochemical Cycles*, 40, e2026GB009140, <https://doi.org/10.1029/2026GB009140>
- \* Brandon M Stephens, Colleen A Durkin, Garrett Sharpe, **Trang T.H. Nguyen**, Justine Albers, Margaret L Estapa, Deborah K Steinberg, Naomi M Levine, Scott M Gifford, Craig A Carlson, Philip W Boyd, Alyson E Santoro, "Direct observations of microbial community succession on sinking marine particles", *The ISME Journal*, Volume 18, Issue 1, January 2024, wrad010, <https://doi.org/10.1093/ismejo/wrad010>
- \* Rachel Adams, Fola Adeleke, Leah Junck, ..., **Trang T. H. Nguyen** et al., 2026, "Mapping the potential and limitations of using generative AI technologies to address socio-economic challenges in LMICs", *Nature Computer Science*, <https://doi.org/10.1038/s43588-026-00960-8>
- \* Anh T. Q. Nguyen, Van M. Dinh, Anh M. Nguyen, Ngan T. Nguyen, Hoan T. Dao, Quan T. Dang, Trung Q. Lai, Eden Halpert, Tu N. Nguyen, **Trang T. H. Nguyen**, Than T. N. Dam, Lan Nguyen-Thanh, Nghia K. Nguyen, Ngoc T. M. Nguyen, Thanh Ngo-Duc, Marcos Paradelo, Kazunori Minamikawa, Benjamin C. Bostick, Stefan Dultz, Minh N. Nguyen, 2026, "Seasonal and Spatial Variability of Arsenic in Rice Across a Climate Gradient in Vietnam", *Land Degradation & Development*, <https://doi.org/10.1002/ldr.70748>
- \* Hong T Pham, Thuy Duong Nguyen, Thi Thanh Tra Le, Duc Luong Tran, **Trang T. H. Nguyen**, Thu Huong Thi Hoang, Khuong V Dinh, 2026, "Assessing transgenerational thermal responses in copepods using integrated U-Net-based morphometric and growth models", *Journal of Plankton Research*, <https://doi.org/10.1093/plankt/fbag034>
- \* Ngoc H.T. Hoang, Ha M. Nguyen, Long C. Nguyen, Trung T. Luu, **Trang T.H. Nguyen**, Thuy T. Nguyen, Son T. Nguyen, Men T. Nguyen, Toan D. Nguyen, 2025. "Ecological rehabilitation of post-bauxite mine spoil using a multi-strata agroforestry model with specialized soil amendments in Tan Rai, Vietnam", *Vietnam Journal of Earth Sciences*, Volume 48(1), 66–88, <https://doi.org/10.15625/2615-9783/23821>
- \* Nguyet N. Phan, Luu L. Tran, Le A. Nguyen, Ngan T.K. Nguyen, **Trang T.H. Nguyen**, 2025. "Groundwater arsenic pollution in Vietnam: Current opinion on the mobilization and remediation", *Current Opinion in Environmental Science & Health*, Volume 44, 100596, ISSN 2468-5844, 10.1016/j.coesh.2025.100596
- \* Quan T. Dang, Anh T.Q. Nguyen, Anh D. Nguyen, Ngan T. Nguyen, Than T.N. Dam, Thu T.T. Tran, Thu H.A. Ngo, **Trang T.H. Nguyen**, Tuan V. Trang, Van M. Dinh, Minh N. Nguyen, 2023. "Desilification of phytolith exacerbates the release of arsenic from rice straw", *Chemosphere*, 10.1016/j.chemosphere.2023.140797

- \* Quan T. Dang, Anh T.Q. Nguyen, Hoa T. Kieu, Quang V. Pham, Thu T.T. Tran; **Trang T.H. Nguyen**, Van M. Dinh, 2023. "Earthworms can mobilize soil arsenic via their cast", *Science of the Total Environment* Volume 893, 10.1016/j.scitotenv.2023.164891
- \* Khai M. Nguyen, Son V. Tran, Thu V. Truong, Yen T. Nguyen, **Trang T.H. Nguyen**, 2012. "Research on using peat as an adsorbent for color organic compounds removal from textile dyeing wastewater", *VNU Journal of Science*, ISSN 0866-8612 28
- \* Khai M. Nguyen, **Trang T.H. Nguyen**, Linh T. Nguyen, Dao A. Chu, Con M. Pham, Nga T. Nguyen, 2012. "Research on water quality of Nhue River, Hanoi", *VNU Journal of Science*, ISSN 0866-8612 28
- \* **Trang T.H. Nguyen**, Trung T. Phan, Hang Pham, Minh Do, Lan Phan, Tuan Dinh, Tue Vo, 2025. "NuocGPT: Decoding Salinity Intrusion for Mekong Delta", *Gates Open Research*, <https://doi.org/10.21955/gatesopenres.1117194.1>

#### In Review/Progress

- \* **Trang T.H. Nguyen** et al, 2026. "Warmer Climate Accelerates Selenium Translocation to Rice Grains", In Preparation
- \* **Trang T.H. Nguyen** et al, 2026. "The spatiotemporal ecology and evolution of marine bacteria", *Nature Microbiology Review*, In Preparation
- \* **Trang T.H. Nguyen**, David D. Myrold, 2026. "Diversity and Distributions of Extracellular Peptidases Across Fungal Genomes", *Fungal Ecology*, In Preparation

#### Scientific oral talks at international conferences or institutes

- \* **Invited** Speaker, Apr 23, 2026, Hofstra University, Department of Biology
- \* **Invited** Speaker, Apr 17, 2026, West Texas A&M University, Department of Life, Earth, and Environmental Science
- \* **Invited** Speaker, Feb 3, 2026, Warren Wilson College
- \* **Invited** Speaker, Dec 3, 2025, Arkansas State University, Department of Biological Sciences
- \* Oral Presenter, Dec 9-13, 2024, American Geophysical Union (AGU) Annual Meeting, Washington DC, USA
- \* **Invited** Speaker, Mar 28, 2024, ETH Zurich, Institute of Environmental Engineer, Roman Stocker Lab
- \* Oral Presenter, Mar 04-07, 2024, 4th International Conference on Environmental Pollution, Restoration, and Management (ICEPORM), Quy Nhon
- \* Oral Presenter, Nov 27- Dec 01, 2023, 3rd Vietnam Conference on Earth and Environmental Sciences (VCEES), Quy Nhon
- \* **Invited** Lecturer, Jun 18-29, 2023, Third South Asia Workshop in Aquatic Microbial Ecology (ASIAME3), Quy Nhon
- \* Keynote Speaker, Aug 7-12, 2022, 2nd Vietnam Conference on Earth and Environmental Sciences (VCEES), Quy Nhon
- \* **Invited** Presenter, Mar 26, 2022, Southern California Biogeochemical Ocean Observations and Models Meeting, Los Angeles
- \* Oral Presenter, Feb 24 – Mar 04, 2022, Ocean Sciences Meeting (OSM), Online Everywhere
- \* **Invited** Presenter, Aug 31 – Sep 3, 2021, Simons Collaboration on the Principles of Microbial Ecosystems Annual Meeting
- \* **Invited** Presenter, Sep 1-3, 2020, Simons Collaboration on the Principles of Microbial Ecosystems Annual Meeting
- \* **Invited** Presenter, Oct 4-5, 2020, Simons Joint Marine Collaborations Annual Meeting
- \* **Invited** Presenter, April 23-28, 2017, European Geosciences Union General Assembly (EGU), Vienna, Austria
- \* Oral Presenter, Nov 6-9, 2016, Soil Science Society of America (SSSA) International Annual Meeting, Phoenix, Arizona
- \* **Invited** Presenter, Apr 2012, Student Research Conference 17th, Vietnam National University of Science, First Prize Award

#### Scientific poster presentations at regional, national, and international conferences (selectively listed)

- \* Eli Franklin, Michele Lavigne, **Trang T. H. Nguyen\***, "Coastal Influence: Carbonate Chemistry Fluctuations and Modeling in Casco Bay, Maine", May 8, 2025, EOS Honors Talks, Depart. of Earth and Oceanographic Science, Bowdoin College, Brunswick, Maine
- \* **Trang T. H. Nguyen**, Trung T. Phan, Mar 23-26, 2024, "NuocGPT: Decode salinity intrusion in Mekong Delta Vietnam", Applied Machine Learning Days Conference at École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland
- \* **Trang T. H. Nguyen**, Brandon M. Stephens, Naomi M. Levine, Alyson E. Santoro, "Integrate Mechanistic Model and Field Observations To Understand Microbial Roles In Deep-Sea Carbon Sequestration", Nov 27- Dec 01, 2023, 3rd Vietnam Conference on Earth and Environmental Sciences (VCEES), Quy Nhon
- \* Linh N.N. Nguyen, Khue H.T. Ngo, **Trang T. H. Nguyen\***, "Microplastic Distribution and Characterization in Hau River", Nov 27- Dec 01, 2023, 3rd Vietnam Conference on Earth and Environmental Sciences (VCEES), Quy Nhon
- \* Khue H.T. Ngo, Linh N.N. Nguyen, **Trang T. H. Nguyen\***, "Microplastic Extraction Method for Sediment-Rich Samples: A Case Study at Hau River, Vietnam", Nov 27- Dec 01, 2023, 3rd Vietnam Conference on Earth and Environmental Sciences (VCEES), Quy Nhon
- \* Trang V. Nguyen, Phu T. Nguyen, Dang T. Huynh, **Trang T. H. Nguyen\***, "Predicting *Chlorophyll-a* Concentration in the Mekong River of Vietnam using Physicochemical Parameters and Remote Sensing Data", Nov 27- Dec 01, 2023, 3rd Vietnam Conference on Earth and Environmental Sciences (VCEES), Quy Nhon
- \* **Trang T. H. Nguyen** and Naomi M. Levine, "PrIME and the Martin Curve: Factors influencing marine particulate organic matter degradation", Sep 11-13, 2019, Simons Collaboration on the Principles of Microbial Ecosystems (PrIME) Annual Meeting, Science and Music Associazione IL Poggio, Montecastelli Pisano, Italy
- \* **Trang T. H. Nguyen**, David D. Myrold, "Characterizing the profile of peptidase activity in soil", Jan 6-9, 2019, SSSA International Annual Meeting, San Diego, California
- \* **Trang T. H. Nguyen**, David D. Myrold, Ryan S. Mueller, "Diversity and Phylogenetic Distribution of Extracellular Microbial Peptidases", Sep 8, 2017, Center for Genome Research and Biocomputing (CGRB) Fall Colloquium, OSU
- \* **Trang T. H. Nguyen**, David D. Myrold, Ryan S. Mueller, "Diversity and Phylogenetic Distribution of Extracellular Microbial Peptidases", Aug 1-3, 2017, Multi-omics for Microbiomes – EMSL Integration Conference, Pasco, Washington
- \* **Trang T. H. Nguyen**, David D. Myrold, Ryan S. Mueller, "Diversity and Phylogenetic Distribution of Extracellular Microbial Peptidases", Aug 21-26, 2016, International Symposium on Microbial Ecology (ISME), Montreal, Canada
- \* **Trang T. H. Nguyen**, David D. Myrold, Ryan S. Mueller, "Phylogenetic distribution of secreted peptidases in microorganisms", Mar 16-19, 2016, Vietnam Education Foundation Fellows and Scholars Conference, Washington D.C
- \* **Trang T. H. Nguyen**, Kristin T. Kasschau, David D. Myrold, "Differentiating microbial contributions to soil protease activity", Feb. 26-27, 2015, Oregon Society of Soil Scientists (OSSS) Winter Meeting, Astoria, Oregon
- \* **Trang T. H. Nguyen**, Kristin T. Kasschau, David D. Myrold., "Differentiating microbial contributions to soil protease activity", Nov 2-5, 2014, SSSA International Annual Meeting, Long Beach, California
- \* **Trang T. H. Nguyen**, Kristin T. Kasschau, David D. Myrold, "Preliminary data: Differentiate microbial contributions to soil protease activity", Feb. 27-28, 2014, OSSS Winter Meeting, Bend, Oregon
- \* **Nguyen, Trang T. H.**, Nguyen K.M., Tran V.S., "Removal of Copper (II) in aquatic environment by natural peat: Kinetics and factors influencing on adsorption efficiency", Oct. 10-11, 2012, International Conference on Sustainable Concept for Industrial Wastewater Treatment and Industrial Zone Management, VNU of Science and IEEM, University of Witten/Herdecke

Noted: \* as senior author/advisor/committee member

## GRANTS AND AWARDS

**\$1,762,750**

- 2025 Bowdoin Course Development Award: Bring Maine Soils to the Classroom: Building monoliths to explore Earth \$4,000
- 2025 Bowdoin Faculty Research Award: Soil Microbiomes in Arsenic Accumulation in Vietnamese Rice Paddies \$2,000
- 2025 Award from Ocean Carbon & Biogeochemistry Program (WHOI): Leaky Deltas Workshop \$500
- 2024 Bowdoin Faculty Research Award: The Unseen Arctic: A microscopic view of carbon cycling \$6,000
- 2024 IDP Social Impact Grant: Foster Science Engagement for Marginalized Adolescents in Ho Chi Minh City \$10,000
- 2023 Main PI Grants Challenge (Gates Foundation): NuocGPT: Decoding Mekong Delta Salinity Intrusion \$150,000
- 2023 Finalist of Mekong Water Challenge: Microplastic in the Mekong \$500
- 2023 Finalist of Mekong Water Challenge: AI and Eutrophication in the Mekong \$500
- 2022 Co-PI VINIF grant DA00020 about Arsenic Distribution in Vietnamese Rice Paddies \$600,000
- 2019 PriME Postdoc Travel Fund, Simons Foundation, New York, NY \$2,000
- 2018 Domestic Travel Award, Graduate School, Oregon State University, Corvallis, OR \$500
- 2017 TerraGenome Young Scientist Grant, Multi-omics for Microbiomes-EMSL Integration Conference 2017, PNNL \$500
- 2017 International Travel Award, Graduate School, Oregon State University, Corvallis, OR \$1,000
- 2017 Cheney Scholarship Fund, Dept. Crop and Soil Science, OSU, Corvallis, OR \$500
- 2016 Rod and Ruby Frakes Scholarship, College of Agricultural Sciences, OSU, Corvallis, OR \$2,500
- 2016 J. Ritchie Cowan Memorial Fellowship, Dept. Crop and Soil Science, OSU, Corvallis, OR \$750
- 2015 Contributor to NSF grant number 1456966, OSU, Corvallis, OR \$600,000
- 2015 Larry C. Burrill Memorial Scholarship, Dept. Crop and Soil Science, OSU, Corvallis, OR \$500
- 2015 John B. Good Scholarship, Oregon Society of Soil Scientists \$500
- 2014 Grace Armah-Agyeman Travel Award, Dept. Crop and Soil Science, OSU, Corvallis, OR \$500
- 2014 Robert and Carolyn Witters Fund, Dept. Crop and Soil Science, OSU, Corvallis, OR \$500
- 2013-2018 Professional Development Grant, Vietnam Education Foundation \$2,000
- 2013-2015 Fellowship of Vietnam Education Foundation for Doctorate Study \$59,500
- 2013-2019 Doctoral Research Assistantship at Oregon State University \$300,000
- 2013 Highest Honorable Award of Hanoi People's Committee, Hanoi \$1,000
- 2013 PVFCCo Scholarship, Vietnam National University of Science, Hanoi \$500
- 2012 First Prize in Student Research Conference 17th, Vietnam National University of Science, Hanoi \$500
- 2011 "Highest Distinction Student" Title awarded by Director of Vietnam National University of Science, Hanoi \$500
- 2011 Scholarship for Student Leaders to Study in US Institutes on Global Environmental Issues, USA \$13,000
- 2010 Pony Chung Fellowship, Vietnam National University of Science, Hanoi \$500
- 2009-2013 Merit scholarships for 8 continuous semesters, Vietnam National University of Science, Hanoi \$2,000

## TEACHING

### Fall 2026

**Arkansas State University**

- \* Undergraduate/Graduate 40000-50000 level Microbiology

### Fall 2025

**Bowdoin College**

- \* Undergraduate 2000-level Soils and Terrestrial Carbon Cycling: From Earth's Past to Planetary Futures (**New**) with Lab

### Spring 2025

**Bowdoin College**

- \* Undergraduate 3000-level Research in Earth and Oceanographic Science: Topics in Geomicrobiology (**New**) with Lab
- \* Undergraduate 3000-level Earth Climate History

### Fall 2024

**Bowdoin College**

- \* Undergraduate 2000-level Biogeochemistry: A analysis of Global Change with Lab

### Spring 2024

**Fulbright University Vietnam**

- \* Undergraduate 300-level Integrated Sciences Advanced Seminar IS302 (**New**) with Lab
- \* Undergraduate 100-level Environmental Sciences IS103 (**New**) with Lab

### Fall 2023

**Fulbright University Vietnam**

- \* Undergraduate 300-level Environmental Microbiology IS305 (**New**) with Lab
- \* Undergraduate 100-level Scientific Inquiry CORE104 with Lab

### Spring 2023

**Fulbright University Vietnam**

- \* Undergraduate 300-level Integrated Sciences Advanced Seminar IS302 (**New**) with Lab
- \* Undergraduate 100-level Scientific Inquiry CORE104 with Lab

### Fall 2022

**Fulbright University Vietnam**

- \* Undergraduate 100-level Environmental Sciences IS103 (**New**) with Lab
- \* Undergraduate 100-level Scientific Inquiry CORE104 with Lab

### Fall 2015 to Spring 2019

**Oregon State University**

- \* Undergraduate 200-level Introduction to Soil Science SOIL205, SOIL206 with Lab as TA
- \* Undergraduate 100-level Introduction to Environmental Science, SUS102 as TA

# PROFESSIONAL SERVICES

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## Peer-Reviewer for scientific journals

- \* Editorial Secretary of Vietnam National University Journal of Earth and Environmental Sciences (VNU-JEES)
- \* Review Editor of Frontiers in Systems Biology Journal
- \* Associate Editor of Agronomy Journal (2019-2026)
- \* Grant Reviewer of NSF, NAFOSTED (Vietnam NSF)
- \* Reviewer of Biogeochemistry Journal, Ecology Journal, Agronomy Journal, Vietnam Journal of Earth Sciences, Deep-sea Research Part II: Topical Studies in Oceanography, Communications Biology- Nature, Journal of Geophysical Research - Biogeosciences, Fundamental Research

## Scientific Principal Investigator

- \* Collaborate with PTNK Innovation Initiative to offer 03 summer research internships for highschool students

## Conference Chair

- \* Sustainable Agriculture International Symposium 2: “Vietnamese Agricultural Products and Export Challenges”, Washington D.C, March 22-25, 2018. Invited keynote speaker: Dr. Sonny Ramaswamy (former NIFA Director)

## Executive Organizer

- \* Annual Meetings of PriME collaborations, Simons Foundation, Aug 31- Sep 03, 2020 and 2021
- \* Meeting of Southern California Biogeochemical Ocean Observations and Models. Los Angeles, Mar 21, 2020
- \* Annual Conference of Vietnamese Scientists and Engineers Network in the U.S. Uni of Chicago, Chicago, IL, Aug 2-4, 2019
- \* USDA-NIFA Visit trip for Vietnam Education Foundation Fellows to discuss bilateral collaborations between US & Vietnam in agriculture, Washington DC, March 22nd, 2018. Co-organize with Dr. Otto Gonzalez (NIFA International Program Director)
- \* Annual Warkentin Distinguished Lecture series, Dept. Of Crop and Soil Science at Oregon State University, 2013-2019

## Invited Panelist

- \* Conference of Science and Technology Day, Vietnam Academy of Science and Technology, Hanoi, Vietnam, May 14, 2022, ”Science and Technology for Environmental Protection”,
- \* Annual Conference of Vietnamese Scientists and Engineers Network in the U.S., University of Chicago, Chicago, Illinois, Aug 2-4, 2019. “Research-Academia: Journeys to success in academia and research in the US”

# LEADERSHIP

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## Faculty Governance Committee

**2022 – 2024**

*Member*

*Fulbright University Vietnam*

- \* Ensure faculty views are considered in significant actions related to college governance
- \* Represent the faculty of all departments in all matters
- \* Review and Make recommendations regarding policies and procedures that govern the college

## Student Conduct Board

**2022 – 2024**

*Member*

*Fulbright University Vietnam*

- \* Review potential violations of the Code of Student Conduct
- \* Serve as hearing officer for cases that could result in suspension or expulsion from the University

## Scholarship Committee

**2023 – 2024**

*Member*

*Fulbright University Vietnam*

- \* Evaluate and review scholarship applications
- \* Make recommendations for each assigned scholarship to the University

## Postdoctoral Association Marine Environmental Biology Program

**2020 – 2022**

*Organizer*

*University of Southern California*

- \* Develop program with Joint Education Program to provide science mentoring services to underrepresented students (6-10 yo)
- \* Develop science outreach workshops with Los Angeles Public Libraries for underrepresented students (8-13 yo)

## Association of Graduate Soil Scientists

**2014 – 2019**

*President*

*Oregon State University*

- \* Positions: Faculty Liaison (2017- 2019), President (2016- 2017), Vice president (2015- 2016), Treasurer (2014-2015)
- \* Lead organization of 7 lecture series, 2 field trips, 2 workshops (science writing and science communication), 20 faculty-graduate student lunch meetings, 14 social events, and social outreach activities (science education) at Corvallis farmers’ market
- \* Coordinate with Soil Science E-campus to create and assemble experimental kits for organization fund raising

## Coalition of Graduate Employees

**2016 – 2017**

*Steward Council on behalf of soil graduates*

*Oregon State University*

- \* Represent the voice of soil graduate research assistants and teaching assistants in the coalition
- \* Bargain for a fair working contract with the university and Advocate for communal issues

## Association of Vietnam Education Foundation Fellows and Scholars

**2013 – 2018**

*Executive Board*

*Vietnam Education Foundation*

- \* Co-organize annual conferences with Vietnam Education Foundation (2014-2018)
- \* Facilitate non-profit community projects: mentoring program for Vietnamese students seeking for higher education in STEM fields, and book donation project (VnBookDrive) that donate textbooks in English to libraries in Vietnam universities.

## Other professional services

2009 – Present

### Multiple Positions

### Multiple Projects

- \* Public Narrative coach (a leadership framework from Harvard Kennedy School), 2020-now, with focus on female and immigrant social workers in the US with Sandy Dang (former executive director of Vietnam Education Foundation and 2021 Outstanding Naturalized American awarded by USCIS).
- \* Interviewer, 2019, 2020 VEF 2.0 Program for Vietnamese nationals to pursue graduate studies at leading universities in the US
- \* Program administrator, 2011- 2012, SAFE project (Strengthen Adaptability and Fostering Emergency Response Skills for Children) funded by Hanoi US Embassy, Vietnam
- \* Program administrator, 2011- 2012, iCare project funded by University of Montana and The Mansfield Foundation, an environmental education program for middle school students, Hanoi
- \* Vice President, 2009-2012, Student and Environmental Club, VNU

## SCIENCE COMMUNICATION

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- **Bowdoin News about My Maine Soil Collection collaborated with USDA-NRCS Summer 2025**  
*"Getting the Dirt on Bowdoin's New Soil Library"*, By Rebecca Goldfine
- **Bowdoin Magazine Winter 2026, Did You Know section**  
*"The Dirt on Soil"*: Facts about Soil Ecosystems in Maine, By Rebecca Goldfine and Rachel Ignatofsky from New York Times
- **Fulbright University Vietnam News, Human of Fulbright Section Spring 2023**  
*"A decision to u-turn: Dr. Nguyen Thi Huyen Trang's brave and bold move to become the top microbiologist"*, By Bao Tram
- **USC Science/Technology News about My Research Spring 2022**  
*"Scientists can predict transfer of carbon — including pollution from cars — in the ocean"*, By Emily Gersema
- **USC Dornsife Marine Environmental Biology Department Featured Research Spring 2022**  
*"Microbial Activity Contribute to Setting the Ocean Carbon Flux by Altering the Fate of Sinking Particulates"*, By A. Floback
- **Le Courrier Vietnam (French) Feature News about My Invited Panel Event Spring 2022**  
*"Science and technology at the service of the environment"*, By Hoang Lan
- **Vietnam Congressional TV news about the Science and Technology Day Spring 2022**  
*"About Science and technology at the service of the environment"*, By Vietnam Congressional TV
- **More Science Communication and Outreach News**  
*Click to visit My website for more recent updates. Articles listed here are selective.*

## TECHNICAL SKILLS

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**Laboratory experience:** Chemical, physical, and microbiological analyses; Enzymatic assays and peptidase inhibitor assays; Field samplings; Isotope dilution experiments; Bioinformatic analyses including microbial genomics (16S, 18S rRNA), other functional genes

**Programming and modeling language:** R, Matlab

**Software/Online server:** CytoScape, SigmaPlot, iTol, SignalP, JMP, Hydrus, GIMP, Adobe Illustrator, Overleaf

**Statistical software:** R

**Operational systems:** Unix/Linux, Microsoft Windows, Macintosh

**Modeling experience:** Numerical models to represent physical and biological processes in multiple ecosystems