

Curriculum Vitae: Tianyin Ouyang

Tianyin Ouyang, Ph.D.

Horn Point Laboratory
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EDUCATION

University of Delaware **Ph.D.** 2020 – 2025
Marine Science/ Chemical Oceanography
Dr. Andrew S. Wozniak, Advisor

University of Maryland, College Park **B.S.** 2016 – 2020
Doubles majors: 1) Chemistry 2) Secondary Science Education

PROFESSIONAL EXPERIENCES

Assistant Research Scientist (Postdoctoral Researcher) 2026 – Present
Horn Point Laboratory, University of Maryland Center for Environmental Science
Dr. Andrea Pain and Dr. Elizabeth North, Mentors

- Independently lead and conduct a series of optimization experiments to enhance calcium carbonate production in whiting events
- Support development and validation of the SequestStar Optimization Model for calcium carbonate production
- Assist the market research, commercialization of calcium carbonate products, and assembling the Input-to-Product pilot system

Thriving Earth Exchange Fellow 2024 – 2025
American Geophysical Union, Washington D.C.

- Led and managed a community-based science project addressing flooding challenges in the Warren County, NC
- Worked closely with community leader, Cathy Alston-Kearney, to define priorities, ensure alignment with local needs, and promote equitable community engagement
- Conducted network-based outreaches to identify and recruit volunteer scientists with relevant expertise to the community project
- Facilitated meetings and communication between scientists and community members
- Supported project documentation and reporting of outcomes

Graduate Research Assistant 2020 – 2025
Wozniak Marine Organic Geochemistry Laboratory, School of Marine Science and Policy,
University of Delaware
Dr. Andrew S. Wozniak, Advisor

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- Independently developed and led 4 field-based research projects focused on organic matter and nutrient dynamics in coastal ecosystems including bays, submarine groundwater, and salt marshes
- Skilled in carbon (organic & inorganic) and nutrient quantification, optical and molecular-level characterization
- Collaborated with stakeholders and non-profit organizations to evaluate carbon and nutrient loads and inform strategic management of coastal ecosystems
- Provided mentorship to 4 undergraduate students, supporting project design, data analysis, and scientific report
- Contributed to the Accelerating Research Translation (ART) project by supporting geoscience faculty and graduate students in effectively communicating their research to the general public and key stakeholders

Agroecology Research Internship

2019 – 2020

Agroecology Laboratory, Department of Plant Science and Landscape Architecture, University of Maryland – College Park

Dr. Danielle Weissman and Dr. Katherine L. Tully, Mentors

- Designed and conducted an independent field-based research project to examine the impacts of saltwater intrusion on nutrient mobilization in coastal agricultural soils
- Trained in effective communication strategies for engaging with farmers and policymakers

Undergraduate Research Assistant

2018 – 2019

Department of Civil and Environmental Engineering, University of Maryland – College Park

Dr. Sarah J. Fischer, Mentor

- Assisted Dr. Sarah J. Fischer in quantifying dissolved organic carbon from coastal waters and soils
- Collaborated with USDA to assess the impacts of DDT on worms and soil health
- Independently conducted a research project on quantifying carbon and nutrient stocks in Paint Branch, Maryland

Research Project Manager

2017 – 2018

Attention & Emotion Laboratory, Maryland Neuroimaging Center

- Assisted Dr. Dan Xiang and Dr. Joseph Dien in EEG data analysis using the EP Toolkit on MATLAB
- Gathered brain data using EEG and fMRI, maintained accurate records for the laboratory

TEACHING & MENTORING EXPERIENCES

Mentoring and Supervision

2020 – Present

Graduate Students

- Zhaoxun (Nancy) Yang, Ph.D. Geochemistry, Coastal and Estuarine Research Federation Mentorship Program (2025 – Present), mentor; support professional networking and engagement in the coastal environmental science community.

Undergraduate Researchers

- Olivia Leighton, SWMS Mentorship Program (2024 – 2025); Mentored on professional growth and leadership as a woman in marine science
- Nicole Gutkowski, University of Delaware (2022 – 2023), Project WiCCED mentor; Mentored research project on spatial and temporal dynamics of dissolved organic matter in the Indian River and Rehoboth Bays
- Jacob Ukropec, University of Delaware (Summer 2023), Project WiCCED mentor; Mentored research project on characteristics of horizontal and vertical dissolved organic matter in Wharton's Bluff
- Jake Bass, University of Delaware (Summer 2021), Project WiCCED mentor; Mentored research project on dissolved organic phosphorus dynamics in the Murderkill River Estuary

Colleagues/ Lab Technion

- Katherine Eastman, General Assistant, University of Maryland Center for Environmental Science (2026 – Present); Mentored on using Apollo SciTech LI-5350A DIC analyzer and Thermo Scientific™ Orion Star™ T900 Series Potentiometric titrators

Teaching Assistant

2023

MAST407 Class, School of Marine Science and Policy, University of Delaware

- Delivered lectures on optical characterization of organic matter and quantification of key nutrients using fluorescence spectrophotometry
- Mentored ~20 students in research design, literature review, and data analysis using R and Microsoft Excel

Secondary Science Teacher Internship

2019 – 2020

Prince George's County Public Schools, Maryland

Mr. Brian Stagg and Ms. Deborah J. Branch, Mentors

- Delivered instructional content and managed classroom activities for Honors Chemistry at Eleanor Roosevelt High School
- Collaborated with mentor teacher Deborah J. Branch to assess student progress and adapt instructional strategies for Environmental Science courses at Buck Lodge Middle School
- Designed and implemented lesson plans aligned with curriculum standards and targeted student learning objectives

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Teaching Assistant

2019

CHEM272 Class, Department of Chemistry and Biochemistry, University of Maryland

- Delivered lab-section lectures on analytical techniques, including chromatography, UV-Vis spectroscopy, colorimetric analysis, and voltammetry
- Provided academic support and mentorship to ~15 students, fostering their understanding of complex analytical chemistry concepts

SCIENTIFIC CRUISE EXPERIENCES

Hydrothermal Vent Sampling in the East Pacific Rise, N9°

Atlantis Research Vessel & Alvin Submersible

March 2025 – May 2025

- Duration: 45 days
- Funding: National Science Foundation
- Activities: Assisted with pre-cruise preparation and shipment of scientific equipment to the Scripps Institution of Oceanography; organized and established shipboard analytical spaces, including wet, isotopic, and dry laboratories; operated the CTD and conducted shipboard experiments including solid-phase extraction, preservation of biological samples, and laboratory cleaning protocols; collected deep-sea water, rock, and biological samples using the *Alvin* Submersible; support for writing cruise schedules and reports

Sea Surface Microlayer Sampling in the Gulf of Mexico, the North Atlantic Ocean

Hugh R. Sharp Research Vessel

Summer 2024

- Duration: 14 days
- Funding: National Science Foundation
- Activities: Contributed to cruise planning and equipment preparation; organized and installed instruments and laboratory equipment on the research vessel; supported sea surface microlayer sampling and CTD operations; assisted in drafting cruise reports

Surface Water Sampling in the Indian River Bay

Delaware Center for the Inland Bays Ship

2021 – 2023

- Duration: 14 cruises, 1 day each
- Funding: National Science Foundation & Delaware Center for Inland Bays
- Activities: Organized cruise logistics, including scheduling participants and preparing sampling equipment; collected and filtered surface water samples; measured temperature, salinity, and other water quality parameters using a YSI multiparameter probe

PEER-REVIEWED PUBLICATIONS

- **Ouyang T.** (2025) Molecular characterization of dissolved organic matter in mid-Atlantic, USA rivers and estuaries: Insights for carbon cycling in the Murderkill River and Indian River Bay. (Doctoral dissertation, University of Delaware).

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- **Ouyang, T.**, A.M. McKenna, A.S. Wozniak (2024) Storm-driven hydrological, seasonal, and land use/ land cover impact on dissolved organic matter dynamics in a mid-Atlantic, USA coastal plain river system characterized by 21 T FT-ICR mass spectrometry. *Front. Environ. Sci.* 12: 1379238, doi: 10.3389/fenvs.2024.1379238.
- Czarnecki, J.I., D.F. Levia, J.R. Scudlark, **T. Ouyang**, A.S. Wozniak (2023) Regional sources and seasonal variability of rainwater dissolved organic and inorganic nitrogen at a mid-Atlantic, USA Coastal Site. *J. Geophys. Res. Biogeosci.* 128(2): e2022JG007056, doi: 10.1029/2022JG007056.
- Weissman, D., **T. Ouyang**, K.L. Tully (2021) Saltwater intrusion affects nitrogen, phosphorus and iron transformations under oxic and anoxic conditions: an incubation experiment. *Biogeochemistry* 154: 451-469, doi: 10.1007/s10533-021-00796-6.
- **Ouyang, T.**, D.S. Weissman, K.L. Tully (2020) Saltwater Intrusion Releases Iron and Phosphorus from Agricultural Soils. *Undergrad. Res. DRUM*, doi: 10.13016/0r8m-855d.

In-reviewing & preparation process:

- **Ouyang, T.**, F.E. Agblemany, A.M. McKenna, A.S. Wozniak (2025) Implication of negative and positive electrospray ionization mode on 21 T Fourier-transform ion cyclotron resonance mass spectrometric aquatic dissolved organic matter characteristics. [submitted to Environmental Science and Technology]
- **Ouyang, T.**, S.F. Gonski, W-J. Cai, A.S. Wozniak (2025) Dissolved organic matter dynamics and effects of its functional groups on organic alkalinity in the Inland Bay, Delaware, characterized by FTIR spectroscopy. [in preparation]
- **Ouyang, T.**, H. Michael, A.M. McKenna, A.S. Wozniak (2026) Submarine groundwater dissolved organic matter characteristics along salinity gradient in a shallow, mid-Atlantic, USA coastal embayment. [in preparation]
- Agblemany, F.E., **T. Ouyang**, A.M. McKenna, A.S. Wozniak (2026) Comparison of direct injection and liquid chromatography FT-ICR mass spectrometry measurements: Implications for microlayer dissolved organic matter characterization. [in preparation]

SCHOLARSHIP & FELLOWSHIP

- Take It Further Grant (**\$4,000**), Thriving Earth Exchange Program, American Geophysical Union
- Doctoral Fellowship for Excellence (**\$32,667/year** for a year), Graduate College, University of Delaware
- Research Assistantship (**\$27,500/year** for four years), School of Marine Science and Policy, University of Delaware
- Thriving Earth Exchange Fellowship (**\$8,000**), Thriving Earth Exchange Program, American Geophysical Union
- Student Travel Award (**\$400**) for ACS Spring 2024 conference, School of Marine Science and Policy, University of Delaware

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- Maryland Summer Scholarship (\$5,000), Maryland Undergraduate Research Program
- Work for Change Scholarship (\$500+), University of Maryland

PRESENTATIONS AT CONFERENCES, SYMPOSIA, WORKSHOPS

- **Ouyang, T.**, S. Gonski, W-J. Cai, A.S. Wozniak (2025) Dissolved organic matter and inorganic carbon dynamics impact organic alkalinity in a coastal lagoon estuary [*Oral Presentation*]. Coastal and Estuarine Research Federation 28th Biennial Conference, Richmond, Virginia
- **Ouyang, T.** (2025) Assessing sources and factors that impact carbon and nutrient cycles in the Indian River Bay, Delaware [*Invited Speech*]. Citizen Caf'e, Center for the Inland Bay, Delaware
- **Ouyang, T.**, S. Gonski, W-J. Cai, A.S. Wozniak (2024) Temporal and spatial variations of dissolved organic matter (DOM) and their relationship with dissolved oxygen and alkalinity in a mid-Atlantic shallow coastal lagoon system [*Poster Presentation*]. AGU2024 Annual Meeting, Washington D.C., USA
- **Ouyang, T.** (2024) Storm-driven hydrological, seasonal, and land use/ land cover impact on dissolved organic matter dynamics in a mid-Atlantic, USA coastal plain river system. [*Oral Presentation*] CEOE 2024 Research Symposium, Lewes DE, USA (***First Place**)
- **Ouyang, T.**, H. Michael, E.S. Bacmeister, A.S. Wozniak (2024) Submarine groundwater dissolved organic matter characteristics along salinity gradients in a shallow, mid-Atlantic, USA coastal embayment [*Poster Presentation*]. American Chemistry Society Spring 2024 Meetings, New Orleans, Louisiana, USA
- **Ouyang, T.** (2023) Spotlight: How does groundwater impact the water quality behind scenes? [*Oral Presentation in Pitch Format*], Pitch 90, Delaware Environmental Institute (DENIN), University of Delaware – Newark Campus
- **Ouyang, T.** (2023) Dissolved organic matter dynamics in riverine and estuarine systems [*Oral Presentation*], 2023 Research Experience for Undergraduate Student Seminar, University of Delaware
- **Ouyang, T.**, A.M. Mckenna, A.S. Wozniak (2023) The Integrated Roles of River Discharge, Seasonality, and Land Use/Land Cover on Dissolved Organic Matter Dynamics in the Murderkill River Estuary, DE [*Oral Presentation*], 4th Annual Earth System Observations & Modeling Graduate Symposium, George Mason University, Fairfax MD, USA.
- **Ouyang, T.**, A.M. Mckenna, A.S. Wozniak (2023) The Integrated Roles of River Discharge, Seasonality, and Land Use/Land Cover on Dissolved Organic Matter Variations in the Murderkill River Estuary, DE [*Poster Presentation*], DENIN Research Symposium, University of Delaware – Newark Campus.

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- Ukropec, J., **T. Ouyang** (2023) Characteristics of Horizontal and Vertical DOM in Wharton's Bluff [*Oral Presentation*], 2023 Marine Sciences Summer Intern Presentations, University of Delaware
- Gutkowski, N.M., **T. Ouyang**, A.S. Wozniak (2023) Spatial and Tidal Dynamics of Dissolved Organic Matter in the Indian River and Rehoboth Bays [*Poster Presentation*], 2023 DENIN Symposium, University of Delaware
- **Ouyang, T.**, A.M. Ebling, A.M. Mckenna, A.S. Wozniak (2022) The Integrated Roles of River Discharge, Seasonality, and Land Use/Land Cover on Dissolved Organic Matter Variations in the Murderkill River Estuary, DE [*Poster Presentation*], AGU2022 Meeting, Chicago IL, USA
- **Ouyang, T.**, S. Gonski, A.S. Wozniak (2022) Temporal and Spatial Variations of Dissolved Organic Matter in the Indian River Bay Region [*Poster Presentation*], CEOE 2022 Research Symposium, online. (***First Place**)
- **Ouyang, T.**, S. Gonski, A.S. Wozniak (2022) Temporal and Spatial Variations of Dissolved Organic Matter in the Indian River Bay Region, DENIN Research Symposium [*Poster Presentation*], University of Delaware – Newark Campus.
- **Ouyang, T.**, A.M. Ebling, A.S. Wozniak (2022) Dissolved organic matter dynamics in freshwater of Murderkill River Estuary: integrated role of river discharge, land use/land cover, and seasonality [*Poster Presentation*], Ocean Science Meeting 2022, online.
- Gutkowski, N.M., **T. Ouyang**, A.S. Wozniak (2022) Spatial and Temporal Dynamics of Dissolved Organic Matter in the Indian River and Rehoboth Bays [*Poster Presentation*], Undergraduate Summer Scholar Symposium, University of Delaware
- **Ouyang, T.**, A.M. Ebling, A.S. Wozniak (2021) Dissolved organic matter dynamics in Murderkill River Estuary: Integrating land cover/land use to pulse shunt concept [*Poster Presentation*], Coastal and Estuarine Research Federation 2021 Biennial Conference, online.
- **Ouyang, T.**, A.M. Ebling, A.S. Wozniak (2021) The Influence of Discharge on Dissolved Organic Matter Dynamics in Murderkill River Estuary [*Poster Presentation*], CEOE 2021 Research Symposium, online.
- **Ouyang, T.**, A.M. Ebling, A.S. Wozniak (2021) The Influence of Discharge on Dissolved Organic Matter Dynamics in Murderkill River Estuary [*Poster Presentation*], CEOE 2021 Research Symposium, online.
- **Ouyang, T.**, A.M. Ebling, A.S. Wozniak (2021) Dissolved Organic Matter Dynamics in the Murderkill River Estuary [*Poster Presentation*], DENIN Research Symposium, online. (***Third Place**)
- Bass, J., A.S. Wozniak, **T. Ouyang**, A. Ebling (2021) Dissolved Organic Phosphorus Dynamics in the Murderkill River Estuary [*Poster Presentation*], Undergraduate Summer Scholar Symposium, University of Delaware

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- **Ouyang, T., D.S. Weissman, K.L. Tully** (2020) Saltwater Intrusion Releases Iron and Phosphorus from Agricultural Soils [*Poster Presentation*], Undergraduate Research Day 2020, University of Maryland, online.
- **Ouyang, T., D. Xiang, D.J. Bolger, J. Dien** (2019) A Chinese Language Study of the N450 Rhyming Effect [*Poster Presentation*], Society for Psychophysiological Research 2019 Annual Conference, Washington DC, USA.

LEADERSHIP & ORGANIZATIONS

Diversity, Equity, and Inclusion Committee Member , University of Maryland Center for Environmental Science, Cambridge, MD	2026 – Present
Citizen Advisor Committee Member , Center for the Inland Bays, Delaware	2023 – Present
Nominations and Leadership Development Committee Member , Coastal and Estuarine Research Federation, Seattle, WA	2024 – 2025
Mentorship Program Chair , Steering Committee Member, Society for Women in Marine Science (SWMS), Massachusetts	2023 – 2026
Academic Council Student Representative , College of Earth, Ocean, and Environment (CEOE), University of Delaware	2023 – 2025
SWMS UD Chapter President , School of Marine Science and Policy, University of Delaware	2021 – 2025
Student Senator , Graduate Student Government, University of Delaware	2021 – 2022
Student Representative , College of Education, University of Maryland	2019
Student Participant (only selected outstanding students invited to participate), Work for Change Program, Leadership and Community Service-learning Program, Maryland	2018
Volunteer Curriculum System Director , I.L.E.A.D Success Program, Student UMD Chapter, University of Maryland – College Park	2017 – 2018

Ad-hoc Outreach Activities:

- **Volunteer Leader**, 2025 Governor’s School for Excellence at Lewes Campus; Recruited volunteers and coordinated education and hands-on STEM activities for ~35 high-achieving high school students selected for the statewide program
- **Volunteer Presenter and Activity Assistant**, 2025 Series of Science Walk into the Bar, Lewes, Delaware; Demonstration on major coastal threats and scientific findings from my research work to the general public
- **Volunteer Presenter**, 2023 – 2025 Coast Day, Lewes, Delaware; Demonstration on saltmarsh and hydrothermal vent biogeochemistry
- **Volunteer Research Presentation and Poster Judge**, 2025 CEOE Research Symposium, University of Delaware
- **Volunteer Instructor**, 2023 – 2024 Governor’s School for Excellence at Lewes Campus; Demonstration on the visualization of microbial species using microscopies and

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saltmarsh biogeochemistry ~20 high-achieving high school students selected for the statewide program

- **Volunteer Demonstrator**, 2023 – 2024 Water Family Fest and Native Plant Sale; Led an interactive demonstration on the impacts of storms and flooding on estuarine runoff and presented green infrastructure solutions to reduce runoff
- **Volunteer Judges**, 2022 Sussex County STEM Alliance k-5 STEM Fair, Lewes Public Library, Delaware
- **Volunteer Essay Contest Judge**, 2021 – 2022 Delaware Coast Day [Online]
- **Volunteer**, 2021 – 2025 Chesapeake Bay Bowl
- **Volunteer**, 2021 Food Bank of Delaware in Milford, DE
- **Cat Enrichment and Adoption Volunteer**, 2023 – 2024 Brandywine Valley SPCA, Georgetown, DE

RESEARCH PROJECTS & COLLABORATORS

SequestStar Project PCC Optimization 2026 – Present

- Funding: National Science Foundation Convergence Accelerator
- Mentors: Dr. Elizabeth North and Dr. Andrea Pain
- Collaborator: Dr. Greg Silsbe (UMCES), Dr. Gwendolyn Stark (UMCES), Alison Sanford (UMCES), Dilara Williams (UMCES), and Katherine Eastman (UMCES)

Submarine Groundwater Biogeochemistry Project 2023 – Present

- Funding: Doctoral Fellowship for Excellence
- PI: Andrew S. Wozniak (UD)
- Collaborators: Holly Michael (UD, Earth Sciences), Tom Hanson (UD, SMSP), Yael Kiro (Weizmann Institute of Science, Israel), Keren Yanuka-Golub (The Galilee Society Institute of Applied Research, Israel)

Accelerating Research Translation Project 2024 – 2025

- Funding: NSF Accelerating Research Translation Award
- PI: Andrew S. Wozniak (University of Delaware (UD))
- Collaborators: Christopher Petrone (Delaware Sea Grant)

Solving the Flooding Problems in Warrenton NC Project 2024 – 2025

- Funding: Thriving Earth Exchange Fellowship & Take It Further Grant
- Project Manager: **Tianyin Ouyang**
- Collaborator: Dr. Caren Cooper (NC State University), Dr. Manmeet Singh (UTexas at Austin), Dr. Vinicius Taguchi (NC State University), Seana Finn (NC State University), Cathy Alston-Kearney (Warrenton Community Leader)

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Carbon and Nutrient Cycles in the Indian River and Rehoboth Bays 2021 – 2024

- Funding: NSF EPSCOR award to UD, “Project WiCCED”
- PI: Andrew S. Wozniak (UD)
- Collaborators: Wei-Jun Cai (UD), Stephen Gonski (UD), Center for the Inland Bay (Lewes, Delaware)

Advancing DOM Characterization using 21T FT-ICR MS 2020 – 2023

- Funding: NSF EPSCOR award to UD, “Project WiCCED”
- PI: Andrew S. Wozniak (UD)
- Collaborators: Amy M. McKenna (National High Magnetic Field Laboratory, Florida, USA)

Carbon Cycles in the Murderkill River Estuary 2020 – 2022

- Funding: NSF EPSCOR award to UD, “Project WiCCED”
- PI: Andrew S. Wozniak (UD)
- Collaborators: Wei-Jun Cai (UD), Stephen Gonski (UD), Department of Natural Resources and Environmental Control (Delaware, USA)

Saltwater Intrusion Project 2019 – 2020

- Funding: Maryland Summer Scholarship & USDA NIFA Integrated Agriculture and Natural Resources Extension and Research Program Grant
- Advisors: Danielle Weissman & Katherine L. Tully (University of Maryland)

Biosolid Project 2018 – 2019

- Funding: Environmental Protection Agency
- Mentor: Sarah J. Fischer (University of Maryland)

ANALYTICAL & PROFESSIONAL SKILLS

- **Data analysis:** experienced in statistical analyses (linear algebra, Fourier transformation, principal component analysis, parallel factor analysis, ANOVA, Tukey’s honestly significant difference test) and scientific writing
- **Coding and programming:** R, MATLAB, LaTeX, Overleaf, GitHub (touyang98 repos), and Microsoft Excel
- **Wet lab experience:** sample filtration, centrifugation, titration, pH measurement and adjustment, solid phase extraction, solution preparation, inorganic nitrogen and phosphorus digestions
- **Analytical Instruments:** Expertise with fluorescence spectrophotometry (i.e., Aqualog), total organic carbon (TOC) analyzer (dissolved carbon quantification), CHNS elemental analyzer (particulate carbon and nitrogen quantification), DIC analyzer (i.e., Apollo

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SciTech LI-5350A), potentiometric titrators, Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES), nutrient (nitrate/nitrite, ammonium, phosphate) quantification, atomic absorption spectroscopy (AAS), ultraviolet-visible (UV-Vis) spectrophotometry, Fourier-transform ion cyclotron resonance mass spectrometry (FT-ICR MS), Fourier transform infrared spectroscopy (FTIR spec), CTD sensors, Gas/Liquid Chromatography (GC/ LC), Electroencephalogram (EEG)

- **Teaching:** B.S. in education degree; Passed the teacher certification exam series in 2020
- **Field Collections:** Land and ship-based water sample collections, microlayer sample collection, soil coring, groundwater collection, hydrothermal vent sampling
- **Languages:** Fluent in English and Mandarin