

Anh Huy Pham

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EMPLOYMENT

Woods Hole Oceanographic Institution, Department of Biology

Postdoctoral Investigator

July 2024 - Present

Project: “*Advancing big data solutions for high volume image data in marine plankton ecology*”, funded by Simons Foundation, mentored by Dr. Heidi Sosik

Skills: computer vision, natural language processing, high-performance computing, ocean engineering

Georgia Institute of Technology, School of Earth & Atmospheric Sciences

Research Assistant

January 2024 – July 2024

Project: “*The Great Atlantic Sargassum Belt: a Nature Analog of Marine CDR*”, funded by NSF, supervised by Prof. Annalisa Bracco,

Skills: ocean modeling, big data analysis

Vietnam Academy of Science and Technology, Institute of Oceanography

Research Scientist

August 2017 – August 2018

Intern

June 2016 – September 2016

Project: “*Harmful algae taxonomy and physiology in Vietnam coastal water*”; “*Biogeochemical and biological impacts of the Mekong River Plume and coastal upwellings on the food web.*”, funded by Vietnam Academy of Science and Technology, Schmidt Ocean Institute, supervised by Prof. Lam Nguyen-Ngoc

Skills: environmental science, marine biology, field sampling

EDUCATION

Georgia Institute of Technology, Atlanta, GA

Ph.D. in Ocean Science and Engineering, with minor in Applied Computer Sciences

2018 – 2024

Advisor: Prof. Joseph Montoya,

Dissertation: “*Delineating planktonic habitats in highly dynamic marine environments: from oceanographic expedition to autonomous platform.*”, funded by NSF, NASA, German Research Foundation

Skills: biogeochemistry, unsupervised machine learning, data mining, parallel computing

International University – Vietnam National University, Ho Chi Minh City, Vietnam

B.Sc. in Biotechnology

2013 – 2017

Advisor: Dr. Hoa Thi Pham

Thesis: “*Studying the effect of key nutrients uptake on growth and lipid accumulation of *Chlorella vulgaris* and *Nannochloropsis oculata*.*”, First Class Honors (10%)

Skills: biochemistry, molecular biotechnology, bioinformatics

PUBLICATIONS

- Pham, A.H., Zheng, B., Sosik, H.M., Zhang, W., Ferguson, M., Peacock, E.E., Crockford, E.T., Grassian, B., Zuidema, S., Gawarkiewicz, G.G. and Sato, M., 2026. Biological characterization of a mid-water salinity maximum intrusion over the Northeast US Shelf. *Limnology and Oceanography*, 71(5), p.e70388. <https://doi.org/10.1002/lno.70388>
- Pham, A.H., Subramaniam, A. and Montoya, J.P., 2026. Delineating marine planktonic habitats through the Biogeochemical-Argo array data. *Journal of Geophysical Research: Oceans*, 131(2), p.e2025JC022543. <https://doi.org/10.1029/2025JC022543>
- Nguyen-Ngoc, L., Luat, D.M., Doan-Nhu, H., Pham, H.M., Krock, B., Huynh-Thi, N.D., Tran-Thi, L.V., Tran-Thi, M.H., Pham, A.H., Nguyen-Tam, V. and Nhan-Luu, T.T., 2025. Phylogenetic and Autecology Characteristics of Five Potentially Harmful Dinoflagellate Alexandrium Species (Dinophyceae, Gonyaulacales, Pyrocystaceae) in Tropical Waters: A. affine, A. fraterculus, A. leei, A. pseudogonyaulax, and A. tamiyavanichii. *Toxins*, 17(2), p.81. <https://doi.org/10.3390/toxins17020081>
- Pham, A.H., Choisnard, N., Fernández-Carrera, A., Subramaniam, A., Strobe, E.K., Carpenter, E.J., Voss, M. and Montoya, J.P., 2024. Planktonic habitats in the Amazon Plume region of the Western Tropical North Atlantic. *Frontiers in Marine Science*, 11, p.1287497. <https://doi.org/10.3389/fmars.2024.1287497>
- Nguyen-Ngoc, L., Doan-Nhu, H., Phan-Tan, L., Huynh-Thi, D.N., Nguyen-Tam, V., Pham, A.H., Tran-Thi, H.M., Le Tran-Thi, V. and Tester, P., 2022. Seasonal occurrence of the potentially toxic benthic armoured dinoflagellates in Nha Trang Bay, South Central Coast of Viet Nam. *Regional Studies in Marine Science*, 55, p.102627. <https://doi.org/10.1016/j.rsma.2022.102627>
- Nguyen, U., Tran, D., Pham, A., & Ho, M. 2015. Medium And Salinity for Growth and Lipid Accumulation of Nannochloropsis sp.. *Journal of Biology and Nature*, 3(4), 152–158. Retrieved from <https://ikprress.org/index.php/JOBAN/article/view/1141>
- Vo, T., Tran, D., Pham, A., Luu, P., Bui, A., & Bui, L. 2015. Conditions for Simultaneous Exploitation of Total Carotene, Phenolics and Antioxidant Capacity of Dunaliella salina A9. *Journal of Advances in Food Science & Technology*, 2(1), 29–33. Retrieved from <https://ikprress.org/index.php/JAFSAT/article/view/3364>

PRESENTATIONS

- “Studying the ocean through autonomous platform”, oral presentation at Marine Science Student Research Symposium, University of Georgia, Georgia, May 2024.
- “Delineating marine planktonic habitats through Biogeochemical-Argo array data”, poster presentation at Ocean Sciences Meetings, New Orleans, February 2024.
- “Phytoplankton Functional Type spatial and temporal variations in the Tropical North Atlantic”, oral presentation at Southeastern Biogeochemistry Symposium, University of South Carolina, May 2023.
- “Planktonic Habitats in the Amazon Plume Region of the Western Tropical North Atlantic” online presentation at Xiamen Symposium on Marine Environmental Sciences, Xiamen University, January 2023.

TEACHING EXPERIENCE

Georgia Institute of Technology, School of Biological Science

Ecology BIOS 2301, Lab instructor

Fall 2023

Biostatistics APPH 6225, Teaching assistant

Summer 2023

Ecology BIOS 2301, Lab instructor	Spring 2023
Ecology BIOS 2301, Lab instructor	Fall 2022
Aquatic Chemical Ecology REU Program, Student advisor	Summer 2022
Experimental Design & Statistical Methods BIOS 4401, Teaching assistant	Spring 2022
Ecology BIOS 2301, Lab instructor	Fall 2021
Biological Principles BIOS 1107, Teaching assistant	Summer 2021
Organismal Biology Project Lab BIOS 1208, Lab instructor	Spring 2021
Organismal Biology Lab BIOS 1108, Lab instructor	Fall 2020
Science Foundation of Health APPH 1040, Teaching assistant	Summer 2020
Special Topic APPH 1802, Teaching assistant	Spring 2020
Science of Physical Activity & Health APPH 1050, Teaching assistant	Fall 2019
Biological Principles BIOL 1510, Lab instructor	Summer 2019
Intro to Organismal Biology BIOL 1520, Lab instructor	Spring 2019
Organismal Biology Lab BIOL 1520, Lab instructor	Fall 2018

Vietnam National University, School of Biotechnology

Practice in Molecular Biotechnology BT334IU, Teaching Assistant	Spring 2017
Practice in Molecular Biotechnology BT334IU, Teaching Assistant	Fall 2016
Practice in Molecular Biotechnology BT334IU, Teaching Assistant	Spring 2016
Practice in Molecular Biotechnology BT334IU, Teaching Assistant	Fall 2015
Practice in Molecular Biotechnology BT334IU, Teaching Assistant	Spring 2015
Practice in Molecular Biotechnology BT334IU, Teaching Assistant	Fall 2014
Practice in Molecular Biotechnology BT334IU, Teaching Assistant	Spring 2014

PROFESSIONAL DEVELOPMENT

University of North Carolina – Wilmington June 2023

Attended NSF-funded cyber-training program to Advance Data Acquisition, Processing, and Machine Learning-based modeling in Marine Science

Georgia Institute of Technology April 2019

Conference host for Ocean Visions, Advancing Solutions for Ocean-Climate restoration.

Vietnam National University 2016 – 2017

Volunteer at Regional Centre of Expertise on Education for Sustainable Development (RCE) Southern Vietnam