

Victor Hieu Nguyen

Charlotte, NC

vhiu@unc.edu • +1 (704) 877-6570 • <https://vhi3u.github.io/>

EDUCATION

Georgia Institute of Technology, Atlanta, GA

Ph.D. in Ocean Science and Engineering

Incoming Aug 2026

University of North Carolina at Chapel Hill, Chapel Hill, NC

Environmental Science, B.S., Applied Mathematics, B.S.

Aug 2022 – May 2026

- Honors Carolina Laureate
- Highest Honors Designation
- Carolina Research Scholar
- Thesis: *Shoal Bathymetry Influence on Offshore Transport and Mixing*
- Minor: Marine Sciences

EXPERIENCE

Georgia Institute of Technology, Atlanta, GA

Graduate Research Assistant

Incoming Aug 2026

- Georgia Tech Oceanography Group
- Advisor: Prof. Lilian Dove

University of North Carolina at Chapel Hill, Chapel Hill, NC

Undergraduate Research Assistant

Jul 2025 – Present

- Carolina Dynamical Oceanography Group
- Offshore transport and mixing in Diamond Shoals using Oceananigans
- Advisor: Prof. Ken Zhao

University of North Carolina at Chapel Hill, Chapel Hill, NC

Undergraduate Research Assistant

Mar 2023 – May 2026

- Seim Lab for Observational Physical Oceanography
- Hydrgraphic variability of Cape Hatteras coastal region using Slocum gliders
- Advisor: Prof. Harvey Seim

SECOORA, Remote

Data Engineering Intern

May 2025 – Aug 2025

- SECOORA Slocum Data Processing and Management Framework (SDPMF) for Slocum gliders
- Advisor(s): Prof. Harvey Seim, Prof. Catherine Edwards

Underwater Glider Pilot

Jul 2023 – Nov 2025

- Glider data used for hurricane forecasting
- Advisor(s): Prof. Harvey Seim, Prof. Catherine Edwards, Karen Dreger

Texas A&M University, College Station, TX

Summer REU Fellow

May 2024 – Aug 2024

- Carbon Cycle and Earth Environment Lab
- Long-term impact of carbon dioxide removal methods on ocean and atmospheric tracers
- Advisor(s): Prof. Shuang Zhang, Shihan Li

AWARDS & SCHOLARSHIPS

National Science Foundation Graduate Research Fellowship

2026 – 2031

- Annual award: \$37,000

Epsilon Eta Honors Environmental Fraternity

Mar 2024

Dean's List

Aug 2022 – May 2026

- Fall 2022, Spring 2023, Spring 2024, Spring 2026

- PRESENTATIONS** **Nguyen, V.H.**, Zhao, K.X., and Seim, H. (2026). *Oral Presentation*. Shoal Influence on Offshore Flow and Mixing. Earth, Marine, and Environmental Sciences Celebration of Research Symposium, UNC.
- Nguyen, V.H.** and Seim, H. (2025). *Poster Presentation*. Shelf Water Mixing from Cape Hatteras Coastal Region: Tropical Cyclone and Winter Storm Effect on Destratification. AGU25 Annual Meeting, American Geophysical Union.
- Nguyen, V.H.** and Seim, H. (2025). *Poster Presentation*. Continental shelf hydrographic variability during the Processes driving Exchange at Cape Hatteras (PEACH) program. Celebration of Undergraduate Research, UNC.
- Zhang, S., **Nguyen, V.H.**, et al. (2024). *Poster Presentation*. Long-term carbon storage capacity and ocean co-benefits of carbon dioxide removal methods. AGU24 Annual Meeting, American Geophysical Union.
- Seim, H., Edwards, C., and **Nguyen, V.H.** (2024). *Poster Presentation*. Southern Mid-Atlantic Bight conditions observed with shelf gliders during the PEACH project during 2017-2018. NSF OOI Community Workshop: Pioneer Array, Old Dominion University.
- Nguyen, V.H.**, Zhang, S., and Li, S. (2024). *Oral Presentation*. Carbon capture potential and ocean system interactions. Department of Oceanography REU Symposium, TAMU.
- Nguyen, V.H.**, Zhang, S., and Li, S. (2024). *Poster Presentation*. Carbon capture potential and ocean system interactions. LAUNCH REU Poster Symposium, TAMU.
- Nguyen, V.H.** and Seim, H. (2024). *Poster Presentation*. Characterization of Hatteras Front using glider deployments from PEACH project. Celebration of Undergraduate Research, UNC.
- Nguyen, V.H.** and Seim, H. (2024). *Poster Presentation*. Characterization of Hatteras Front using glider deployments from PEACH project. Earth, Marine, and Environmental Sciences Research Symposium, UNC.

SERVICE AND OUTREACH

- Carolina Science Olympiad**, Chapel Hill, NC
 Senior Advisor May 2025 – May 2026
 President May 2024 – May 2025
 Service Chair May 2023 – May 2024
 Media Chair Oct 2022 – May 2023
- Epsilon Eta Honors Environmental Fraternity** Chapel Hill, NC
 Academic Chair May 2025 – Dec 2025
- Office of Undergraduate Research** Chapel Hill, NC
 Research Ambassador May 2024 – May 2025

SKILLS

- Programming Languages:** MATLAB, Julia, Python, Java
Ocean Modeling: Oceananigans.jl
Front-end: L^AT_EX, HTML, CSS, Markdown
HPC: Casper GPU (NCAR), Derecho (NCAR), Longleaf (UNC), Sycamore (UNC)

[CV compiled on 2026-05-20]