Viet M. Bui

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Education

University of Florida — Gainesville, FL
PhD in Hydrology — *Anticipated Dec '29*
MS in Hydrology — *Anticipated Dec '27*

- Advisor: Dr. Jorge Lorenzo-Trueba

Augustana College — Rock Island, IL
B.A. in Computer Science & Engineering Physics, Minor in Math | GPA: 3.78 — *May '24*

- Presidential & Entrepreneur Scholarship, Phi Beta Kappa, Sigma Pi Sigma (Physics)
- **Involvement:** Academic Tutoring Service, Augustana Physics, Engineering and Astronomy Society - VP, Google Developer Students Club - '22-'23 Lead

Programming Languages

Proficient in: Python, Java, SQL, JavaScript, C++, Git, PHP
Familiar with: Rust, C, R, MATLAB

Softwares

Proficient in: Visual Studio Code, Spyder, Jupyter Notebook, Eclipse, Inventor3D, Adobe Creative Suite, MySQL Workbench
Familiar with: QGIS, ArcGIS, RStudio, Figma

Experience

University of Minnesota, Earth Surfaces Processes Research Lab — Sep – Dec '24
Researcher | Advisor: Dr. Andy Wickert — *Minneapolis, MN*

- Designed and conducted wide-spectrum solar radiation sensor experiments atop the St. Anthony Laboratory, analyzing hardware performance and data quality in collaboration with a multidisciplinary research team.
- Participated in field along Minnesota's North Shore to assist in data point collection, supporting a postdoctoral researcher's geomorphology research.

Montclair State University, Coastal Dynamic Lab — Jun – Dec '24
Student Researcher | Advisor: Dr. Jorge Lorenzo-Trueba — *Remote*

- Experimented with model parameters to constrain transitions between land and oceanic sediment domains, enhancing the accuracy of delta response simulations to sea-level changes and sediment supply variations.
- Adapted MATLAB-based modeling workflows to Python, improving computational performance and visualization quality, including the use of Plotly to generate interactive graphics for AGU 2024 Conference presentations (link).
- Utilized computer vision techniques to analyze and extracted quantitative data from flume experiments.