## Multiple Fully Funded PhD Opportunities (Fall 2025/Spring 2026/Fall 2026)

### About the Position

Incoming Assistant Professor Zhichen Liu in Civil Engineering at Stony Brook University is seeking **multiple Ph.D. students** to begin in Fall 2025/Spring 2026/Fall 2026. Her research lab focuses on innovating **next-generation modeling and computational tools for mobility and logistic systems**, with emphasis on connectivity, electrification, and automation. Directions include but not limited to:

- AI-enabled modeling and optimization of complex transportation networks
- Learning, adaptation, and policy design in human–autonomous vehicle interactions
- Economic modeling and regulation in multimodal transportation and the sharing economy

### Qualifications

- Hold or pursue a Bachelor's or Master's degree in Civil Engineering, Industrial Engineering, Electrical and Computer Engineering, Applied Mathematics, Statistics, or a related field.
- Proficiency in programming and computational tools is preferred.
- Strong background and interest in operations research (convex/nonconvex/stochastic optimization), machine learning (deep/reinforcement learning), game theory, or mechanism design is preferred.

Accepted Ph.D. students will be provided with very competitive financial support and tuition remission.

### About the PI

Zhichen Liu will join the Department of Civil Engineering at Stony Brook University as an Assistant Professor in Fall 2025. She is currently completing her Ph.D. in Civil Engineering at the University of Michigan, advised by Dr. Yafeng Yin, and holds a dual Master's degree in Industrial and Operations Engineering. She has published as first author in leading journals such as *Transportation Science* and *Transportation Research Part C*, and previously served as a visiting scientist at General Motors. Zhichen is the recipient of the Rackham Predoctoral Fellowship and was selected as the sole global awardee of the prestigious 2025 Helene M. Overly Memorial Scholarship.

### About Stony Brook University

Stony Brook University is a flagship R1 institution in the State University of New York (SUNY) system and a proud member of the Association of American Universities (AAU). Ranked #58 nationally by U.S. News in 2025, Stony Brook is home to a distinguished faculty that includes seven Nobel Prize winners. Its proximity to New York City fosters strong industry partnerships with leading high-tech companies such as IBM, Siemens, and regional agencies, supporting impactful research and career opportunities.

### How to Apply

If you are interested, please send an email to **zhichliu6@gmail.com** with the subject line "Prospective Student - YOURNAME" including your **CV, transcript, and a brief research statement**. Depending on your visa status, you may begin in Fall 2025 or Spring 2026. I will also be recruiting students during the regular application cycle in December for Fall 2026 admission. For more details, you can check here.