



Graduate Research Assistant Positions in Transportation Engineering (Spring & Fall 2026)

The research lab led by Dr. Pei Li at the University of Wyoming invites applications for fully funded Graduate Research Assistant positions starting in Spring or Fall 2026. The lab's mission is to advance safe, intelligent, and connected transportation systems by integrating interdisciplinary expertise and emerging technologies in Artificial Intelligence (AI), digital twins, Vehicle-to-Everything (V2X), and human factors. Our work focuses on developing theoretical models and practical applications that sense traffic conditions, predict future scenarios, and facilitate real-time communication among infrastructure, vehicles, and road users. Ongoing projects include digital twins for infrastructure monitoring and control, Large Language Models (LLMs)-based real-time traffic monitoring, and data-driven approaches for proactive traffic safety prediction.

Qualifications:

1. B.S. or M.S. degree in a relevant field (e.g., Transportation Engineering, Computer Science, Data Science, and Statistics).
2. Strong programming, statistical, and computational skills (e.g., Python, C++, R, MATLAB).
3. Experience with machine learning frameworks (e.g., PyTorch, TensorFlow), LLM frameworks and tools (e.g., LangChain, vLLM), traffic simulation platforms (e.g., SUMO, Vissim, CARLA), and driving simulators is desirable but not required.

About the PI

Dr. Pei Li is an Assistant Professor in the Department of Civil and Architectural Engineering and Construction Management at the University of Wyoming. He previously served as a Scientist at the University of Wisconsin–Madison and as a Postdoctoral Research Fellow at the University of Michigan. His research advances the understanding of how emerging technologies impact transportation safety and mobility. His research interests include AI, digital twins, V2X, and human factors. He earned a B.S. in Logistics Engineering (2015) and an M.S. in Transportation Engineering (2018) from Tongji University. He completed his Ph.D. in Civil Engineering at the University of Central Florida in 2021.

About the University

The University of Wyoming (UW) is a Carnegie R1 research institution and a leading public land-grant university. Located in Laramie, a scenic town in the Rocky Mountain West, UW offers exceptional outdoor recreation and proximity to metropolitan areas such as Denver, Boulder, and Fort Collins. The campus features state-of-the-art facilities, including a two-cab driving simulator, the Advanced Research Computing Center, and newly funded infrastructure for AI and intelligent transportation systems. The Department of Civil and Architectural Engineering and Construction Management includes 24 faculty members and serves approximately 440 students. For additional information, please see: <http://www.uwyo.edu/civil/>.

How to Apply

To apply, please contact Dr. Pei Li directly at pei.li@uwyo.edu with your application materials, including a curriculum vitae, a statement of purpose, academic transcripts, and samples of prior work. For any questions or additional information, please feel free to reach out to Dr. Li directly.