

Andrew Lutz is a Graduate Research Assistant for the Intermodal Freight Transportation Institute (IFTI) at the University of Memphis, pursuing a Master of Science in Civil Engineering with a concentration in transportation. Shortly after graduating high school, Andrew worked for several years in the technology industry as a troubleshooter and systems developer before entering the high-performance automotive industry as a technical consultant. Andrew returned to the University of Memphis in fall of 2008, and graduated cum laude from the University of Memphis with a Bachelor of Science in Civil Engineering in December 2012. He was awarded the T.S. Wu Senior Design Award upon graduation. As an undergraduate, he was also awarded five semester-long MemphiSTEM undergraduate research fellowships, and recognized by the Tennessee Road Builders Association as a TRBA Scholar.

As a sophomore, Andrew worked as department laboratory assistant -- a position he held until graduation. This position required oversight of all freshman laboratory activities (up to 54 students), as well as assignment evaluation and analysis and improvement of current classroom projects. He also held an internship with the Center for Partnerships in GIS (CPGIS), and was instrumental in the development of an all-new GIS-intensive curriculum for his department. Andrew was a mentor for the MemphiSTEM program, and a teaching assistant for Math Bootcamp, M² math workshop, and TREC (Transportation Engineering Careers).

Andrew is involved with several professional organizations. He is a member of the Order of the Engineer, and an active member of both the American Society of Civil Engineers (ASCE) and Institute of Transportation Engineers (ITE). Andrew served as captain of the ASCE Surveying Team and participated in yearly conference activities and many community outreach efforts. He currently serves as secretary for his ITE chapter.

Given his background in technology, it's no wonder that Andrew's research interests include transportation technology, intelligent transportation systems (ITS), vehicle-to-vehicle communications, traffic operations, optimization, GIS, and shortline rail.