



Ph.D. Positions Available in Transportation Systems Optimization

Position Description

The Department of Civil and Environmental Engineering (CEE) at Florida International University (FIU) seeks to recruit at least two highly motivated Ph.D. students to join Dr. Qianwen Guo's research group, as early as **Fall 2022**. Applicants should have a B.S. or M.S. in Transportation Engineering, Industrial Engineering, Systems Engineering, Operations Research, Computer Science, or a related discipline. Applicants should possess the ability to work independently, as well as in a team. Fine scientific writing skills and fluency (both oral and written) in English are required. Other desired qualifications include: (1) the determination to explore and break new ground; (2) keen research interests in optimization methods (e.g., linear programming, integer programming, nonlinear programming, probabilistic optimization, equilibrium models); and (3) considerable programming experience in C/C++, Java, Python, or other languages.

About FIU and Florida Miami

FIU is a top 50 public university and classified as "R1: Doctoral Universities Very high research activity" in the Carnegie Classification of Institutions of Higher Education. In 2021, it was ranked #1 in the Florida Board of Governors performance funding, and had over \$246 million in research expenditures. It is the fifth-largest university in the United States by enrollment. It has 11 colleges and more than 40 centers, facilities, labs, and institutes that offer more than 200 programs of study. It has an annual budget of over \$1.7 billion and an annual economic impact of over \$5 billion.

FIU's main campus locate in University Park, Miami-Dade County, Florida. Miami is an excellent location for you to spend your PhD years. Our students find exciting internship opportunities because Miami is home to over 1000 international companies. South Florida, consisting of Miami-Dade, Broward and West Palm Beach Counties, supports over 7000 information technology-related companies. Our students enjoy a year-round subtropical climate cooled by daily sea breezes. Students can find residences through out the local suburbs or even near the beach.

About PI

Dr. Qianwen Guo has broad research interests in transportation optimization problems, especially in public transit, smart and shared mobility, and civil infrastructure development. She has widely published in leading transportation journals including Transportation Research Parts A, B, C. Her ongoing research is related to innovative mobility systems, transportation economics, and public transit planning and operations.

Applicants should contact Dr. Qianwen Guo directly at qguofiu@gmail.com for further information. Please refer to her webpage at <https://sites.google.com/view/guo-research-web/home>. Graduate Admission @ FIU <https://gradschool.fiu.edu/Admissions/>