MS, Emerging Transportation Systems

> *During my time in the transportation program at USC, I gained invaluable skills in R, SQL, and ArcGIS, which I use daily in my job. The program's integration of cutting-edge skills with transportation studies, along with the expertise of the professors, prepared me well for the industry.* - *Shan Huang*

OUR GRADUATES WORK AT:

AECOM, HDR, HNTB, LADOT, JACOBS, FEHR & PEERS, DKS ASSOCIATES, CALTRANS, ITERIS, ARUP, LSA, MOFFATT & NICHOL

Learn the tools, techniques, and approaches needed to build sustainable and inclusive transportation systems focused on smart mobility. Leveraging its leadership in research and education, strategic location, and significant ties to industry, our transportation degree programs provide exceptional professional preparation for career advancement.

WHY CHOOSE USC?

- We are a **leader in research** on urban freight movement, adaptive cruise control, autonomous vehicles and AI
- We are **located in Los Angeles**, which is a bustling global trade hub with competitive job opportunities
- We have a **close-knit, multi-disciplinary program** with tailored curricula and individualized advisement
- Our **STEM-OPT eligible** management program is open to students of all undergraduate degrees

MS, Emerging Transportation Systems

PROGRAM OBJECTIVE

Enhance skills in innovation, technology, and data for sustainable transportation planning and operation strategies.

WHO SHOULD APPLY?

This program is designed for students with a limited transportation and/or civil engineering background. Acceptable majors include: urban planning, environmental studies, logistics, science, technology, architecture, or other related fields.

Scan to learn more about our Master's degrees and the Astani Graduate Scholars Program!

All applicants who submit an application by the deadline are considered for merit-based scholarships. The Astani Graduate Scholars program offers engagement in academic and industry research, along with financial support.

> *I gained a lot from this program ... My awesome advisor provided me with support in various aspects, such as course selection and employment. Without their help, I would not have the great job I have now.* -Xin Sun

SAMPLE COURSES:

- CE 430: Sustainable Transportation
- CE 471: Principles of Transportation Engineering
- CE 521: Transportation Systems Analysis
- CE 524: Digital Tools for Transportation
- CE 536: Future of Mobility
- CE 584: Intelligent Transportation Operations

KEY FACULTY

Dr. Ketan Savla
Systems and control, optimization, dynamical networks, queueing systems, infrastructure and robotics

Dr. Roxana Javid
Sustainable transportation, regional policy analysis, big data analysis, transportation and public health, energy and emissions

Professor Eric Shen
Registered Professional Engineer, Certified Transportation Professional Planner, Certified Port Executive

Dr. Geraldine Knatz
Seaport policy and management, maritime transportation, international trade, seaport sustainability, environmental impact analysis

Dr. Ruolin Li
Future mobility systems, autonomous vehicles, game theory, control and optimization

Dr. Shahed Rowshan
Intelligent transportation systems, civil infrastructure systems, risk assessment and mitigation, transportation infrastructure security

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