

## UWM Infrastructure and Transportation Capabilities

### Faculty Areas of Expertise

<b>Xiao Qin PE</b> qinx@uwm.edu	<b>Director of Institute for Physical Infrastructure and Transportation.</b> Research focus on highway safety & crash modeling, traffic operations & evaluation, intelligent transportation systems, sustainable transportation planning, statistical methods & applications in transportation, GIS and GPS applications and spatial data analysis.
<b>Mark Gottlieb PE</b> markgott@uwm.edu	<b>Associate Director of Institute for Physical Infrastructure and Transportation,</b> and former Secretary of the Wisconsin Department of Transportation.
<b>Andrew Graettinger</b> andrewjg@uwm.edu	<b>Associate Dean for Research, College of Engineering &amp; Applied Science.</b> Research focus on solving complex spatial problems using GIS technology, LiDAR, sustainability in geotechnical engineering, and community resilience after extreme events.
<b>James H. Peoples</b> peoples@uwm.edu	<b>Professor, Economics.</b> Research focus on transportation economics and labor economics.
<b>Robert Schneider</b> rjschnei@uwm.edu	<b>Associate Professor, Urban Planning.</b> Research focus on pedestrian and bicycle planning, design and safety, travel behavior and the built environment, sustainable transportation policy, transportation standards and analysis methods, and quantitative and qualitative research methods.
<b>Romila Singh</b> romila@uwm.edu	<b>Associate Professor, Business.</b> Research focus on organizational behavior, human resource management, and workforce development and planning.
<b>Habib Tabatabai PE</b> ht@uwm.edu	<b>Professor, Civil and Environmental Engineering.</b> Research focus on reliability and durability of bridges, jointless and integral abutment bridges, damage detection in structures, cable-stayed bridges.
<b>Hani Titi PE</b> hanititi@uwm.edu	<b>Professor, Civil and Environmental Engineering.</b> Research focus on geotechnical and pavement engineering, constitutive modeling and advanced laboratory testing of geomaterials, and x-ray micro-computed tomography or durability characterization of aggregates.

The Institute for Physical Infrastructure and Transportation (IPIT) has served as an umbrella organization at UWM to foster multi-disciplinary research activities in all areas of physical infrastructure and transportation through innovation, collaboration, education and technology transfer in the following focus areas:

- Data Analytics, Modeling, Simulation and Sensing Technologies
- Durability and Sustainability of Transportation Infrastructure
- Economy and Policy
- Education and Outreach
- Traffic Safety
- Urban Mobility

IPIT uses a cross-disciplinary approach to find solutions to the most challenging problems with our nation's transportation infrastructure. We rely on 30+ affiliated faculty members from across UWM including the College of Engineering & Applied Science, Letters & Science, Lubar School of Business, School of Architecture & Urban Planning, and the School of Education. Our research is sponsored by National Cooperative Highway Research Program (NCHRP), National Science Foundation (NSF), National Highway Traffic Safety Administration (NHTSA), Wisconsin Department of Transportation, Milwaukee Metropolitan Sewerage District (MMSD), and non-profit organizations.

<https://uwm.edu/engineering/research/>

**To partner with the College of Engineering & Applied Science, contact:**

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