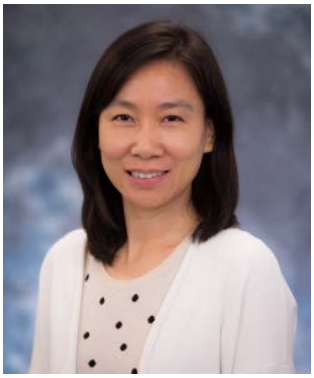
B309 – The Long and Winding Road: Planning and Network Analysis for CAV



Lili Du
University of Florida

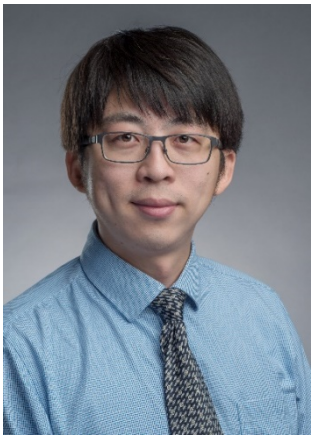
Dr. Du is an associate professor in the Department of Civil and Coastal Engineering, University of Florida. She also worked as an assistant and then an associate professor at Illinois Institute of Technology from 2012-2017, and as a Post-doctoral Research Associate for NEXTRANS at Purdue University from 2008 to 2012. Dr. Du received her Ph.D. degree in Decision Sciences and Engineering Systems with a minor in Operations Research and Statistics from Rensselaer Polytechnic Institute in 2008. Dr. Du also received her MS degree in Industrial Engineering from Tsinghua University in 2003 and BS degree in Mechanical Engineering from Xi'an Jiaotong University in 1998. Dr. Du's research is characterized by integrating operations research, network modeling, game theory, control theory, machine learning and statistical methods into transportation system analysis and network modeling. Her current research mainly focuses on AV/CV/CAV impacts, mobility on demand, resilience, big data analytics in traffic flow and network analysis. Dr. Du's research has been published in Transportation Research Part B, Part C, and Part D, IEEE Transactions on ITS, Networks and Spatial Economics. Her research has been funded by National NSF, state DOT, and UTC. Dr. Du is a recipient of the NSF CAREER award in 2016. Her recent project "Driverless City" won the First Nayar Prize at IIT. She serves on the editorial boards for Transportation Research Part B, Part C, and IEEE ITS. Dr. Du is the active chair of TRB Emerging Technologies in Network Modeling Subcommittee (AEP40-5) and ASCE-T&DI Artificial Intelligence Committee.

Yueshuai Brian He
University of the California, Los Angeles (UCLA)

Dr. Yueshuai Brian is a postdoctoral scholar at the Mobility Lab of UCLA. He received Ph.D. of transportation planning and engineering from New York University in 2020. His research interests include travel behavior analysis, travel demand forecast, transportation system analysis, and transportation simulation.

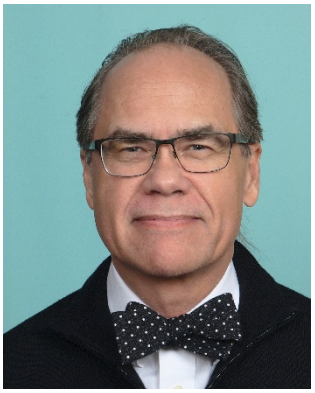
Kara Kockelman
University of Texas at Austin

Kara Kockelman is a registered professional engineer and holds a PhD, MS, and BS in civil engineering, a master's in city planning, and a minor in economics from the University of California at Berkeley. She has been a professor of transportation engineering at the University of Texas at Austin for 23 years, and is the recipient of an NSF CAREER Award, Google Research Award, MIT Technology Review Top 100 Innovators Award, Vulog's Top 20 of 2020 Influential Women in Mobility, and various ASCE, NARSC, TRF, and WTS awards. She recently served as President of the North American Regional Science Association and sits on the Eno Center for Transportation's Advisory Board, as well as three TRB Committees. She has authored over 180 journal articles (and two books), and her primary research interests include planning for shared and autonomous vehicle systems, the statistical modeling of urban systems, energy and climate issues, the economic impacts of transport policy, and crash occurrence and consequences. Pre-prints of these articles (and book contents) can be found at www.caee.utexas.edu/prof/kockelman. She hopes you will join the zero-cost, zero-carbon Bridging Transportation Researchers conference in early August, by registering here: www.bridgingtransport.org



Jiaqi Ma
University of California, Los Angeles

Dr. Jiaqi Ma is an Associate Professor at the UCLA Samueli School of Engineering and faculty lead in New Mobility at UCLA Institute of Transportation Studies. He has led and managed many research projects funded by U.S. DOT, NSF, state DOTs, and other federal/state/local programs covering areas of smart transportation systems, such as vehicle-highway automation, Intelligent Transportation Systems (ITS), connected vehicles, shared mobility, and large-scale smart system modeling and simulation, and artificial intelligence and advanced computing applications in transportation. He is an Associate Editor of the IEEE Open Journal of Intelligent Transportation Systems and Journal of Intelligent Transportation Systems. He is Member of the Transportation Research Board (TRB) Standing Committee on Vehicle-Highway Automation, Member of TRB Standing Committee on Artificial Intelligence and Advanced Computing Applications, Member of American Society of Civil Engineers (ASCE) Connected & Autonomous Vehicles Impacts Committee, Co-Chair of the IEEE ITS Society Technical Committee on Smart Mobility and Transportation 5.0. He is also committee member of SAE J3216 Cooperative Driving Automation for On-Road Motor Vehicles.



Jeremy Raw
Federal Highway Administration

Jeremy Raw, P.E., is a Community Planner in the FHWA Office of Planning where he coordinates research and deployment of data collection and analysis techniques and modeling for transportation planning, as well as planning applications for national data sets. His work areas include support for performance-based planning through performance measure development, modeling and analysis; planning for connected and automated vehicles; scenario planning; and strategic planning techniques. Jeremy holds degrees in philosophy, literature, engineering, and city planning.

Erik Ruehr
VRPA Technologies

Erik Ruehr is Director of Traffic Engineering in the San Diego office of VRPA Technologies. He has a broad background in the fields of traffic engineering and transportation planning. Mr. Ruehr is active in the Transportation Research Board's Highway Capacity Committee and he is a member of the Committee's Connected/Automated Vehicles Task Force. He holds Bachelor and Master's degrees in Civil Engineering from the University of Michigan and is a registered Professional Engineer in California and several other states. In addition to his current position in San Diego, Mr. Ruehr has worked previously as a transportation engineering consultant in the San Francisco Bay Area and Minneapolis, Minnesota and as a transportation engineer for the Toledo Metropolitan Area Council of Governments.

Bastian Schroeder
Kittelson and Associates

Bastian is a Principal Engineer in Kittelson's Wilmington, North Carolina office. As a recognized leader in the transportation industry, he helps guide transportation emerging trends and technologies. Bastian has a passion for developing solutions to complex problems across all areas of transportation with a focus on advancing agency processes and integrating research into standard practices. He is currently leading the pooled fund study on Capacity Estimates of CAV co-sponsored by ten State DOTs.