

# ICTPA 2020 Webinar

## Handling Uncertainty for Future Mobility Planning



### SESSION 1: Friday, October 30, 2020

- 11:00 AM - 11:05 AM Opening Remarks
- 11:05 AM - 11:10 AM Sponsor Presentation
- 11:10 AM - 11:40 AM Bay Bridge Forward  
Mr. Kevin Chen  
Assistant Director, Design  
and Project Delivery, MTC
- 11:40 AM - 12:10 PM Impacts of Connected  
Autonomous Vehicles on  
Future Mobility  
Prof. Xiaopeng Li  
University of South Florida
- 12:10 PM - 12:40 PM San Diego FORWARD –  
SANDAG's version for the  
future regional transportation  
plan  
Ms. Antoinette Meier, AICP  
Director of Mobility and  
Innovation, SANDAG



International Chinese Transportation  
Professionals Association  
Northern California | Southern California,  
Northeast | Florida | Texas | Hong Kong



### SESSION 2: Friday, November 6, 2020

- 11:00 AM - 11:05 AM Sponsor Presentation
- 11:05 AM - 11:35 AM Prediction of the Impact of  
COVID-19 on US K-12 School Trip Travel Demand  
Prof. Lu Gao  
University of Houston
- 11:35 AM - 12:05 PM NYCT Under Covid-19: Past,  
Now and Uncertain Future  
Dr. Yi Deng, Principal Planner  
New York City Transit
- 12:05 PM - 12:45 PM Panel Discussion: Empower  
the Transportation Professionals and Students to  
Ensure Future Mobility  
Moderator: Prof. Steven Chien  
New Jersey Institute of Technology  
Panelists: Prof. James Moore II  
University of Southern California  
Mr. Gary H. Hsueh, AICP  
CHS Consulting Group  
Mr. Heng Wang, PE  
Texas Department of Transportation



Registration

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**Mr. Kevin Chen** is an Assistant Director with the Metropolitan Transportation Commission (MTC). MTC is the transportation planning, financing and coordinating agency for the nine-county San Francisco Bay Area. He is a licensed Civil Engineer with two decades of experience in planning, engineering, and delivery of transportation projects throughout the Bay Area and across the US. Recently, he has been focused on the development of innovative operational efficiency and transportation demand management strategies, aimed at improving carpool and transit modes to maximize person throughput on congested corridors.



**Steven Chien** is a Professor and Director of Transportation Program with the John A. Reif, Jr. Department of Civil and Environmental Engineering, New Jersey Institute of Technology (NJIT). He received his Ph.D. degree from University of Maryland at College Park. Before joining NJIT in 1996, he worked in the transportation industry in Asia and the US. He developed a microscopic traffic simulator CORSIM for FHWA and conducted experiments in evaluating various intelligent transportation system (ITS) applications and transportation management strategies. Dr. Chien's research interests include travel time prediction in congested traffic networks, transportation system analysis, public transit, and ITS for improving safety, mobility, and sustainability of transportation systems. Dr. Chien has supervised more than 50 research grants sponsored by public and private agencies and published many articles in transportation journals. He currently serves as an Associate Editor of Urban Rail Transit and an Editor of the Journal of Advanced Transportation.



**Dr. Yi. Deng** is an enthusiastic Transportation Professional with extensive experience from both private and public sectors, specializing in Travel Demand Modelling and Ridership Analysis. Currently she works as a principal transportation planner with New York City Transit, MTA. She performs transit demand and capacity analysis for subway and bus service planning. She also works with various agencies (MTA family, FTA, FHWA, NYMTC, NY DCP, NYCDOT) and consulting firms on major capital planning projects. Before she joined NYCT, she worked as a transportation consultant in Parsons Corporation for ten years. She received her PhD in civil engineering from New Jersey Institute of Technology; Master and bachelor degree in Transportation from Tongji University. She has been serving as a communication coordinator and member in the Automated Transit Systems Committee(AP040) of TRB since 2008. She served as ICTPA-USNE President during 2016-2017 and she is still actively involving in ICTPA events and activities.



**Dr. Lu Gao** is an Associate Professor and Graduate Program Director in Department of Construction Management at the University of Houston (UH). Dr. Gao earned a B.S. degree in Civil Engineering from Tsinghua University in 2005. He earned a Master's degree and Ph.D. degree in Civil Engineering (concentration on Transportation Engineering) from The University of Texas at Austin in 2007 and 2011 respectively. He joined the faculty of the Department of Construction Management at University of Houston in September 2011. Dr. Gao has been actively involved in research areas of infrastructure asset management, data science, artificial intelligence, and operations research. Dr. Gao is an author or co-author of more than 60 journal and conference papers and technical reports. He has received more than one million dollars research funding from state, federal, and private agencies. He is a member of the ASCE Infrastructure Systems Committee. He serves as board member of International Association of Chinese Infrastructure Professionals (IACIP). He also serves as the co-Chair of the Cross-Cutting Division of World Transport Convention (WTC).



**Mr. Gary Hsueh**, AICP has more than 18 years of experience as a transportation planner in California. He currently serves as the Director of Mobility Programs at CHS Consulting Group. His wide-ranging subject matter expertise includes transportation technology, shared mobility, multimodal transportation/master planning, and corridor and access planning. He is versatile and passionate about helping communities solve transportation problems. He is a nationally-recognized presenter, organizer, and facilitator. He is a member of the Transportation Research Board Standing Committee on Innovative Public Transportation Services and Technologies (AP020).



**Dr. Xiaopeng (Shaw) Li** is currently an associate professor in the Department of Civil and Environmental Engineering at the University of South Florida (USF). He is the director for one USDOT national university transportation center, National Institute for Congestion Reduction (NICR). He established the Connected and Automated Transportation Systems Lab that houses two L3 connected automated vehicles equipped with the USDOT CARMA platform. He is a recipient of a National Science Foundation (NSF) CAREER award. His major research interests include automated vehicle traffic control and connected & interdependent infrastructure systems. He has served as the PI or a co-PI for a number of federal (NSF, USDOT, USDOE), local (e.g., state DOTs, UTCs, I-4 Corridor Program) and industry grants, amounting to a total budget around \$15 million. He has published around 70 peer-reviewed journal papers. Dr. Li received a B.S. degree (2006) in civil engineering with a computer engineering minor from Tsinghua University, China, a M.S. degree (2007) and a Ph.D. (2011) degree in civil engineering along with a M.S. degree (2010) in applied mathematics from the University of Illinois at Urban-Champaign.



**Ms. Antoinette Meier** is the Director of Mobility and Innovation for the San Diego Association of Governments (SANDAG). Antoinette leads the development of plans, policies, and programs that create more sustainable transportation choices for the San Diego region. From innovative partnerships to clean and intelligent transportation solutions, Antoinette is tasked with casting a vision for the future of transportation that offers more choices and greater access to opportunity. For the past 10 years at SANDAG Antoinette has led regional commuter services and innovative pilot projects that reduce traffic congestion, improve mobility and air quality. This includes managing the regional Transportation Demand Management Program (iCommute), facilitating shared mobility pilot projects and autonomous vehicle planning and testing, and fostering partnerships with transit agencies, local jurisdictions, academia, and the region's largest employers to promote sustainable transportation choices to the region's commuters. Prior to joining SANDAG, Antoinette worked in community and economic development in both the San Diego region and the City of Seattle. Antoinette has a master's degree in City Planning and is an AICP certified planner.



**Dr. James Moore II** is a Professor of Industrial and Systems Engineering; Public Policy and Management; and Civil Engineering at USC. He received his Ph.D. degree in Civil Engineering from Stanford. He specializes in transportation engineering and urban transportation systems. He became chair of the USC Epstein Department of Industrial and Systems Engineering in 2004, serving until 2010. He is Director of the Transportation Engineering program in the USC Astani Department of Civil and Environmental Engineering, and served as Vice Dean for Academic Programs in the USC Viterbi School of Engineering from 2011 until 2017. He has served as president of the Institute for Operations Research and the Management Sciences' Transportation Science and Logistics Society, and President of the Institute of Industrial and Systems Engineers. His rabid anti-rail rhetoric can occasionally be found in the Los Angeles Times and other influential media.



**Mr. Heng Wang** received his master degree in Civil Engineering from Virginia Tech. He is Sr transportation modeler and engineer in TxDOT advanced planning group. He has over 15 years of experience in the field of Travel Demand Model development, Dynamic Traffic Assignment (DTA), Activity Based Model (ABM) and Micro-simulation. His expertise covers developing and utilizing urban and multi-county travel demand models for MPO Conformity and RTP update, Long range planning, County and City MTP update, Freeway and Arterial Corridor Studies, City Mobility Studies, Subarea Studies, Transit Studies and Freight Study.