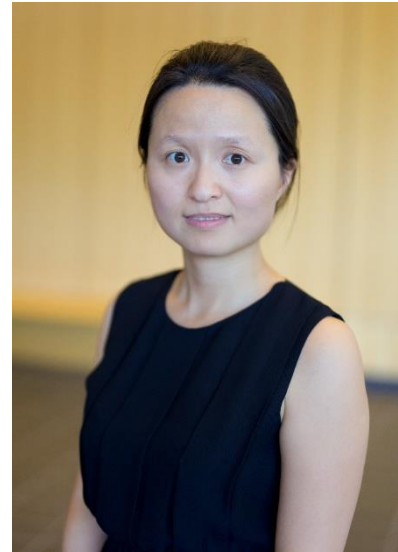**PhD position:**

Prof. Xuan (Sharon) Di from Columbia University in the City of New York is looking for highly motivated summer or semester visiting students and PhDs with strong background in advanced machine learning, such as deep learning, reinforcement learning, and imitation learning. Her group has been working on various application of multi-agent reinforcement learning (MARL) including e-hailing driver repositioning and routing. The PhD position starts from Fall 2020 or Spring 2021. Interested students should contact Sharon at sharon.di@columbia.edu for details.

Bio:

Xuan (Sharon) Di is a tenure-track Assistant Professor in the Department of Civil Engineering and Engineering Mechanics at Columbia University in the City of New York since September 2016 and serves on a committee for the Smart Cities Center in the Data Science Institute. Prior to joining Columbia, she was a Postdoctoral Research Fellow at the University of Michigan Transportation Research Institute (UMTRI). She received her Ph.D. degree from the Department of Civil, Environmental, and Geo-Engineering at the University of Minnesota, Twin Cities in 2014. Dr. Di received a number of awards including the Transportation Data Analytics Contest Winner from Transportation Research Board (TRB), the Dafermos Best Paper Award Honorable Mention from the TRB Network Modeling Committee, Outstanding Presentation Award from INFORMS, and the Best Paper Award and Best Graduate Student Scholarship from North-Central Section Institute of Transportation Engineers (ITE). She also serves as the reviewer for a number of journals, including Transportation Science, Transportation Research Part B/C/D, European Journal of Operational Research, Networks and Spatial Economics, and Transportation.

Dr. Di directs the DitecT (Data and innovative technology-driven Transportation) Lab @ Columbia University. Her research interests include emerging transportation systems optimization, shared mobility modeling, and data-driven urban mobility modeling, leveraging optimization, game theory, and data analytics. Details about DitecT Lab and Prof. Sharon Di's research can be found in the following link: http://sharondi-columbia.wixsite.com/ditectlab

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