



# Transportation Data Science Seminar Series

## Leveraging Data Science for Transportation and Environmental Challenges

### Seminar summary

Cities have been faced with transportation and environmental challenges over decades. For example, the reliance on automobiles have led to decreased physical activities, increased air pollution, and transportation congestion in cities. Efforts to develop healthy, sustainable transportation and environmental systems often include provisions for increasing rates of active transportation and offering environmental exposure assessment to inform urban planning policies. With rapid development in technologies and data science, opportunities arise to upgrade the solutions. This talk will introduce ongoing efforts in leveraging data science to address transportation and environmental barriers. Case studies in active transportation and air quality monitoring and modeling will be introduced. Particularly, experiences in field work, sensor technologies, data analytics, model development, and science communication and education will be discussed. This seminar series is co-organized by Department of Landscape Architecture and Urban Planning, Transportation Institute, and Institute of Data Science at Texas A&M University.

### Speaker's information



Dr. Tianjun Lu is an Assistant Professor in the Department of Earth Science and Geography at California State University Dominguez Hills. He received his Ph.D. in Planning, Governance, and Globalization from Virginia Tech and was a Research Scientist at University of Washington. His scholarly contribution mainly falls into developing healthy communities through transportation planning and air pollution exposure assessment. Dr. Lu has rich experience in developing nationwide air quality models funded by the US Environmental Protection Agency, community-level air quality project funded by the Minneapolis Department of Health, MN, and field measurements and modeling work funded by US Department of Transportation. Currently, he is leading several projects funded by California State University Transportation Consortium and focuses on overcoming environmental and transportation barriers for disadvantaged communities. His work has been published in academic journals including *Transportation Research Part D*, *Science of the Total Environment*, etc.

Time: 8:00-9:00 p.m. US Central Time (Thursday, July 29, 2021)

Zoom Meeting ID: 732 641 0814 Passcode: 575829

Direct Link: <https://tamu.zoom.us/j/7326410814?pwd=cGZKY045dmVkdzVRLy9MYWhocWorQT09>

Faculty Host: Xinyue Ye, Dept. of Landscape Architecture and Urban Planning & Urban Data Science Lab



TEXAS A&M UNIVERSITY  
Landscape Architecture  
& Urban Planning



TEXAS A&M  
Institute of  
Data Science