



Yougeng Lu

Postdoctoral Scholar, SCRDP/ Heart Disease Prevention

Bio

BIO

Yougeng Lu (he/him/his) is a Postdoctoral Scholar with the Natural Capital Project on developing urban nature exposure model. His research focuses on exploring the linkages between exposure to urban nature, such as green space and street trees, and individual's physical activity and mental health. Yougeng received his Ph.D. in Urban Planning and Development from the University of Southern California, where he developed a high spatiotemporal resolution PM2.5 prediction model with low-cost air sensors and studied how people's travel behavior affects their air pollution exposure. He holds an M.Sc. in Urban Planning from University of Washington, Seattle; and a B.Sc. in Geography from Wuhan University, China.

STANFORD ADVISORS

- Ann Hsing, Postdoctoral Faculty Sponsor
- Christopher Gardner, Postdoctoral Research Mentor

Publications

PUBLICATIONS

- **Acute mental health benefits of urban nature** *NATURE CITIES*
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- **Integrated strategies for road transportation-related multi-pollutant control: A cross-departmental policy mix** *TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT*
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- **Urban street network design and transport-related greenhouse gas emissions around the world** *TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT*
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- **Assessing air pollution exposure misclassification using high-resolution PM2.5 concentration model and human mobility data** *AIR QUALITY ATMOSPHERE AND HEALTH*
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- **Impacts of distinct travel behaviors on potential air pollution exposure measurement error** *ATMOSPHERIC ENVIRONMENT*
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- **Where do people meet? Time-series clustering for social interaction levels in daily-life spaces during the COVID-19 pandemic** *CITIES*
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- **Drive less but exposed more? Exploring social injustice in vehicular air pollution exposure.** *Social science research*
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- **Local inequities in the relative production of and exposure to vehicular air pollution in Los Angeles** *URBAN STUDIES*
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- **Estimating hourly PM2.5 concentrations at the neighborhood scale using a low-cost air sensor network: A Los Angeles case study.** *Environmental research*
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- **Analyzing Traffic Impacts of Planned Major Events** *TRANSPORTATION RESEARCH RECORD*
Giuliano, G., Lu, Y.
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