

TAO TAO

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EDUCATION

University of Minnesota Twin Cities

Ph.D. in Urban & Regional Planning
Humphrey School of Public Affairs

August 2017 - Present

University of Minnesota Twin Cities

M.S. in Statistics
School of Statistics

August 2019 - Present

Southeast University, Nanjing, China

M.E. in Transportation Planning & Management
School of Transportation

August 2013 - June 2017

Southeast University, Nanjing, China

B.E. in Traffic & Transportation
School of Transportation

August 2008 - June 2012

PROFESSIONAL APPOINTMENT

Research assistant at University of Minnesota

Supervisor: Prof. Jason Cao

Fall 2017 - Present

- Impact of transitways on travel on parallel and adjacent roads and park-and-ride facilities
- After study of the bus rapid transit A Line impacts

Supervisor: Prof. Greg Lindsey

- Pedestrian and bicycle crash risk and equity: implications for street improvement projects

Independent instructor at University of Minnesota

- PA 5928 Data Management and Visualization with R [Course Website]

Fall 2019

Planning intern at Minnesota Department of Transportation

Supervisor: Paul Czech & John Tompkins

Summer 2019

- Exploring the pedestrian and bicycle crash risk in highway intersections: systemic approach applied in the Twin Cities metro area

JOURNAL ARTICLES

Tao, T., Wu, X., Cao, J., Fan, Y., Das, K., Ramaswami, A., 2020. Exploring the non-linear relationship between the built environment and active travel in the Twin Cities. *Journal of Planning Education and Research*. [Link]

Tao, T., Wang, J., Cao, X., 2020. Exploring the non-linear associations between spatial attributes and walking distance to transit. *Journal of Transport Geography* 82, 102560. [Link][Code]

Wu, X., **Tao, T.**, Cao, J., Fan, Y., Ramaswami, A., 2019. Examining threshold effects of built environment elements on travel-related carbon-dioxide emissions. *Transportation Research Part D: Transport and Environment* 75, 1–12. [Link]

Dou, X., Gong, X., Guo, X., **Tao, T.**, 2017. Coordination of feeder bus schedule with train service at integrated transport hubs. *Transportation Research Record: Journal of the Transportation Research Board* 2648, 103–110. [Link]

RESEARCH REPORTS

Lindsey, G., **Tao, T.**, Wang, J., Cao, J., 2019. Pedestrian and bicycle crash risk and equity: implications for street improvement projects. [Link]

Tomhave, B., Zhang, Y., Khani, A., Hourdos, J., Dirks, P., Olsson, J., **Tao, T.**, Wu, X., Cao, J., 2018. After study of the bus rapid transit A Line impacts. Center for Transportation Studies, University of Minnesota. [Link]

PAPERS UNDER REVIEW

Tao, T., Cao, J., Wu, X., 2020. The road less traveled: Does rail transit matter?

Tao, T., Lindsey, G., Cao, J., Wang, J., 2020. The Effects of Pedestrian and Bicycle Exposure on Crash Risk in Minneapolis.

Tao, T., Cao, J., 2020. Exploring the interaction effect of poverty concentration and transit service on highway traffic during the COVID-19 lockdown.

PRESENTATIONS

Tao, T., Cao, J., Wu, X., 2020. The road less traveled: Does rail transit matter? In: Bridging Transportation Researchers (BTR) Conference, 2020.

Tao, T., 2020. Exploring the pedestrian and bicycle crash risk in highway intersections: systemic approach applied in the Twin Cities metro area. In: Annual Meeting of the Transportation Research Board, 2020.

Lindsey, G., **Tao, T.**, Wang, J., Cao, J., 2020. Exposure, crash risk, and equity: models of pedestrian and bicycle crashes in Minneapolis. In: Annual Meeting of the Transportation Research Board, 2020.

Tao, T., 2019. How does built environment affect activity space of people living in different income level areas? [C] In: 2019 Annual CTS Transportation Research Conference.

Tao, T., Lindsey, G., Cao, J., Wang, J., 2019. New methods for accessing pedestrian and bicycle exposure to risk, crash risk, and equity [C]. In: 2019 ACSP annual conference.

Tao, T., Lindsey, G., Cao, J., Wang, J., 2019. Pedestrian and bicycle crashes in Minneapolis: an equity perspective [C]. In: 2019 Minnesota Transportation Conference.

Tao, T., Cao, J., Das, K., Fan, Y., 2019. Exploring the non-linear relationship between built environment characteristics and people's active travel. In: Annual Meeting of the Transportation Research Board, 2019.

Tao, T., Lindsey, G., Cao, J., Wang, J., 2018. Methods and measures for assessing pedestrian exposure to risk, crash risk, and equity [C]. In: 2018 Annual CTS Transportation Research Conference.

Tao, T., Cao, J., Das, K., Fan, Y., 2018. Exploring nonlinear influences of built environment characteristics on carbon emissions of daily travel in Minneapolis. In: 2018 ACSP annual conference.

Tao, T., Cao, J., 2018. Exploring built environment correlates of walking distance of transit access in the Twin Cities: A Machine Learning Approach [C]. In: 2018 IACP annual conference.

Tao, T., 2017. Analysis of operating patterns of the public bicycling sharing system in the Twin Cities [C]. In: 2017 Sharing Economy Research Forum, 2017.

Tao, T., Guo, X., Li, J., Huang, Y., 2017. Operating characteristics of a public bicycle sharing system based on the status of stations: a case study in Nanning City, China [C]. In: Proceedings of the 97th Annual Meeting of the Transportation Research Board, 2017.

Wang, W., **Tao, T.**, Tai, J., Yang, J., 2017. Path to success: investment and public opinions are reforming the taxi industry in China [C]. In: Proceedings of the 97th Annual Meeting of the Transportation Research Board, 2017.

PROFESSIONAL ORGANIZATIONS

- ACSP student member
- IACP student member
- APA member
- Friend: TRB Stand Committee on Bicycle Transportation