

# TAO TAO

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## EDUCATION

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### University of Minnesota Twin Cities

*August 2017 - Present*

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

### University of Minnesota Twin Cities

*August 2019 - Present*

M.S. in Statistics  
School of Statistics

### Southeast University, Nanjing, China

*August 2013 - June 2017*

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

### Southeast University, Nanjing, China

*August 2008 - June 2012*

B.E. in Traffic & Transportation  
School of Transportation

## PROFESSIONAL APPOINTMENT

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### Research assistant at University of Minnesota

*Fall 2017 - Present*

Supervisor: Prof. Jason Cao

- 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

*Fall 2019*

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

### Planning intern at Minnesota Department of Transportation

*Summer 2019*

Supervisor: Paul Czech & John Tompkins

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

## JOURNAL ARTICLES

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**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*. (Accepted February 2020)

**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

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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]

## WORKING PAPERS

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**Tao, T.**, Lindsey, G., Cao, J., 2019. Exposure, crash risk, and equity: models of pedestrian and bicycle crashes in Minneapolis.

**Tao, T.**, Cao, J., 2019. Transit as a way to more opportunities: exploring the transit's impact on the activity space of people living in the low-income area.

**Tao, T.**, 2019. Ten years' dynamicity in planning education and research: text analysis of the abstracts accepted by the ACSP conference.

## PRESENTATIONS

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**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

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