

# ANMOL PAHWA

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## EDUCATION

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<b>Ph.D.</b>	University of California, Davis Civil and Environmental Engineering	June 2023
<b>B.Tech.</b>	Indian Institute of Technology – Delhi Civil Engineering	May 2017

## RESEARCH EXPERIENCE

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### Ph.D. Dissertation

Title	Assessing sustainability and resilience of last-mile delivery distribution structures under varied markets and delivery environments.
Advisor	Dr. Miguel Jaller

### B.Tech. Dissertation

Title	Indicators of Reliability and Variability in Bus Systems.
Advisor	Dr. Geetam Tiwari

## WORK EXPERIENCE

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Assistant Professor	Indian Institute of Technology – Madras	July 2024 – Present
Postdoctoral Scholar	Institute of Transportation Studies University of California, Davis	July 2023 – June 2024
Supervisor	Dr. Miguel Jaller	

## PUBLICATIONS

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### Journal Publications

Pahwa, A., & Jaller, M. (2024). Evaluating private and system-wide impacts of freight eco-routing. *Transportation Research Part D: Transport and Environment*, 130, 104170.

Jaller, M., Xiao, R. I., Dennis-Bauer, S., Rivera-Royero, D., & Pahwa, A. (2023). Estimating last-mile deliveries and shopping travel emissions by 2050. *Transportation Research Part D: Transport and Environment*, 123, 103913.

Pahwa, A., & Jaller, M. (2023). Assessing last-mile distribution resilience under demand disruptions. *Transportation Research Part E: Logistics and Transportation Review*, 172, 103066.

- Pahwa, A., & Jaller, M. (2022). A cost-based comparative analysis of different last-mile strategies for e-commerce delivery. *Transportation Research Part E: Logistics and Transportation Review*, 164, 102783.
- Jaller, M., Otero-Palencia, C., & Pahwa, A. (2020). Automation, electrification, and shared mobility in urban freight: opportunities and challenges. *Transportation Research Procedia*, 46, 13-20.
- Jaller, M., & Pahwa, A. (2020). Evaluating the environmental impacts of online shopping: A behavioral and transportation approach. *Transportation Research Part D: Transport and Environment*, 80, 102223.
- Pahwa, A., Lakhotia, S., & Tiwari, G. (2017). Methodology for using GPS data from buses to assess link-based travel time variation. *Journal of the Eastern Asia Society for Transportation Studies*, 12, 1238-1251.

#### ***Journal Papers In Review/Preparation***

- Dennis, S., Pahwa, A., & Jaller, M. (In Preparation). Pollution and Health Routing. *Transportation Research Part A: Policy and Practice*.
- Pahwa, A., & Jaller, M. (In Preparation). Coping with the Rise of E-commerce Generated Home Deliveries through Innovative Last-Mile Technologies and Strategies. *Transportation Research Part E: Logistics and Transportation Review*.

#### ***White Papers***

- Jaller, M., & Pahwa, A. (2023). *Coping with the Rise of E-commerce Generated Home Deliveries through Innovative Last-Mile Technologies and Strategies*. National Center for Sustainable Transportation.
- Jaller, M., & Pahwa, A. (2022). *Assessing E-retailers' Resilience During the COVID-19 Pandemic*. Institute of Transportation Studies, UC Davis.
- Jaller, M., Xiao, R., Dennis, S., Rivera-Royero, D., & Pahwa, A. (2022). *National Impacts of E-commerce Growth: Development of a Spatial Demand Based Tool*. National Center for Sustainable Transportation.
- Jaller, M., Pahwa, A., & Zhang, M. (2021). *Cargo Routing and Disadvantaged Communities*. Pacific Southwest Region University Transportation Center.
- Jaller, M., & Pahwa, A. (2020). *Analytical Modeling Framework to Assess the Economic and Environmental Impacts of Residential Deliveries, and Evaluate Sustainable Last-Mile Strategies*. National Center for Sustainable Transportation.
- Rodier, C., Jaller, M., Pourrahmani, E., Bischoff, J., Freedman, J., & Pahwa, A. (2018). *Automated vehicle scenarios: Simulation of system-level travel effects using agent-based demand and supply models in the San Francisco Bay area*. National Center for Sustainable Transportation.

#### ***Policy Briefs***

- Jaller, M., & Pahwa, A. (2021). *Minimizing the Impact of Freight Traffic on Disadvantaged Communities*. Institute of Transportation Studies, UC Davis.
- Jaller, M., & Pahwa, A. (2021). *The Sustainability of Alternative Last-Mile Delivery Strategies*. National Center for Sustainable Transportation.

Rodier, C., Jaller, M., Pourrahmani, E., Pahwa, A., Bischoff, J., & Freedman, J. (2020). *Automated Vehicles are Expected to Increase Driving and Emissions Without Policy Intervention*. Institute of Transportation Studies, UC Davis.

### ***Book Chapters***

Jaller, M., Pahwa, A., Otero-Palencia, C., & Pourrahmani, E. (2023). 19. Overview of city logistics and urban freight transport operations. *Handbook on City Logistics and Urban Freight: 0*, 141.

## **PRESENTATIONS AND INVITED LECTURES**

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### ***Poster Presentations***

Pahwa, A., & Jaller, M. (2024). *Navigating the Last-Mile: Opportunities and Challenges towards Sustainable E-commerce Deliveries*. To be presented at the Transportation Research Board 103<sup>rd</sup> Annual Meeting, Washington, D.C.

Dennis, S., Pahwa, A., & Jaller, M. (2024). *Cargo Routing, Health Impacts, and Disadvantaged Communities*. To be presented at the Transportation Research Board 103<sup>rd</sup> Annual Meeting, Washington, D.C.

Pahwa, A., & Jaller, M. (2020). *Evaluating costs and distribution structure in last-mile deliveries under short time-windows*. Presented at the Transportation Research Board 99th Annual Meeting, Washington, D.C.

Bischoff, J., Rodier, C. J., Pourrahmani, E., Jaller, M., Pahwa, A., & Maciejewski, M. (2019). *Competition among Automated Taxis, Transit, and Conventional Passenger Vehicles: Traffic Effects in the San Francisco Bay Area*. Presented at the Transportation Research Board 98th Annual Meeting, Washington, D.C.

Jaller, M., & Pahwa, A. (2019). *Evaluating the Environmental Impacts of Online Shopping: A Behavioral Analysis using the American Time Use Survey (ATUS) Data*. Presented at the Transportation Research Board 98th Annual Meeting, Washington, D.C.

### ***Invited Lectures***

Pahwa, A., & Jaller, M. (2022). *Freight eco-routing – carrier’s trade-offs and system-wide impacts*. Presented at the METRANS I-NUF 2022, Los Angeles, CA.

Pahwa, A., & Jaller, M. (2022). *Can Truck Eco-Routing Bridge the Gap in Transition to Zero-Emissions?* Presented at the Transportation Research Board 101<sup>st</sup> Annual Meeting, Washington, D.C.

Pahwa, A., Lakhota, S., & Tiwari, G. (2017). *Methodology for using GPS data from buses to assess link-based travel time variation*. 12<sup>th</sup> International Conference of EASTS, Ho Chi Minh City, Vietnam.

## **HONORS AND AWARDS**

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<b>Dissertation Grant</b>	2021
National Center for Sustainable Transportation Research Grant	

<b>Fellowship</b>	2017
National Center for Sustainable Transportation Research Fellowship	

## **SKILLS**

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**Programming Languages:** Julia, Python, R, VBA, JavaScript

**Applications:** TransCAD, Maptitude, ArcGIS, VS Code, Git

## **PROFESSIONAL SERVICE**

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### **Peer-Reviewed Articles for:**

- Applied Sciences
- Central European Journal of Operations Research
- Cogent Engineering
- Computers and Industrial Engineering
- International Journal of Environmental Research and Public Health
- International Journal of Logistics
- Journal of Advanced Transportation
- Networks and Spatial Economics
- Sustainability
- Transportation Planning and Technology
- Transportation Research Board Annual Meeting
- Transportation Research Part A: Policy and Planning
- Transportation Research Part E: Logistics and Transportation Review
- Transportation Research Record
- Trauma care
- World Symposium on Transport and Land Use Research