

# ANMOL PAHWA

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Building Sciences Block  
IIT Madras, Chennai  
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## EDUCATION

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**Ph.D.** University of California, Davis  
September 2017 – June 2023 Civil and Environmental Engineering  
Dr. Miguel Jaller *Assessing Sustainability of E-commerce Goods Distribution.*

**B.Tech.** Indian Institute of Technology – Delhi  
August 2013 – May 2017 Civil Engineering  
Dr. Geetam Tiwari *Indicators of Reliability and Variability in Bus Systems.*

## WORK EXPERIENCE

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**Assistant Professor** Indian Institute of Technology – Madras  
July 2024 – Present Civil Engineering

**Postdoctoral Scholar** Institute of Transportation Studies  
July 2023 – June 2024 University of California, Davis

## 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., Lakhota, 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.

### **White Papers**

- Jaller, M., Pahwa, A., Saphores, J. D., & Hyland, M. (2024). Benefits, Challenges, and Opportunities of Different Last-Mile Delivery Strategies. *University of California Institute of Transportation Studies*.
- Jaller, M., Pahwa, A., & Center, M. T. (2023). Sketch Planning Tool for Sustainable and Resilient Urban Goods Distribution: User Manual. *METRANS Transportation Center (Calif.)*.
- 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*.
- Giuliano, G., Boarnet, M., Jaller, M., Franco, W., Binder, R. B., Dexter, S., Fang, J., David Flores, M., Pahwa, A., Marley, R., & Wang, B. (2022). Improving Environmental Justice and Mobility in Southeast Los Angeles. *Pacific Southwest Region University Transportation Center (UTC)*.
- 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

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### ***Lectern Presentations***

- Pahwa, A. (2025). *A Holistic Continuous-Approximation Framework for Strategic Last-Mile Distribution Planning*. Presented at the METRANS International Urban Freight Conference, Los Angeles, CA, USA.
- Pahwa, A., & Jaller, M. (2024). *Navigating the Last-Mile: Opportunities and Challenges towards Sustainable E-commerce Deliveries*. Presented at the Transportation Research Board 103rd Annual Meeting, Washington, D.C.
- Pahwa, A., & Jaller, M. (2022). *Freight eco-routing – carrier’s trade-offs and system-wide impacts*. Presented at the METRANS International Urban Freight Conference, Los Angeles, CA, USA.
- Pahwa, A., & Jaller, M. (2022). *Can Truck Eco-Routing Bridge the Gap in Transition to Zero-Emissions?* Presented at the Transportation Research Board 101st Annual Meeting, Washington, D.C.
- Pahwa, A., Lakhotia, S., & Tiwari, G. (2017). *Methodology for using GPS data from buses to assess link-based travel time variation*. 12th International Conference of EASTS, Ho Chi Minh City, Vietnam.

### ***Poster Presentations***

- Dennis, S., Pahwa, A., & Jaller, M. (2024). *Cargo Routing, Health Impacts, and Disadvantaged Communities*. Presented at the Transportation Research Board 103rd 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.

## 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, Mapititude, ArcGIS, VS Code, Git

## **PROFESSIONAL SERVICE**

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### **Peer-Reviewer**

- 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
- International Journal of Systems Science: Operations & Logistics
- Journal of Advanced Transportation
- Journal of The Institution of Engineers (India): Series A
- Networks and Spatial Economics
- NPJ Sustainable Mobility and Transport
- Sustainability
- Transportation in Developing Economies
- Transportation Planning and Implementation Methodologies for Developing Countries
- Transportation Planning and Technology
- Transportation Research Board Annual Meeting
- Transportation Research Part A: Policy and Planning
- Transportation Research Part C: Emerging Technologies
- Transportation Research Part D: Transport and Environment
- Transportation Research Part E: Logistics and Transportation Review
- Transportation Research Record
- Trauma care
- World Symposium on Transport and Land Use Research

### **Postdoc Supervisor**

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### **PhD Supervisor**

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### **MTech Supervisor**

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### **BTech Supervisor**

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### **Instructor**

CE 5972 – Optimisation Techniques in Transportation Engineering