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Building Sciences Block
IIT Madras, Chennai
600036

EDUCATION

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

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

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. (2025). Last-Mile Delivery Innovations and Best Practices in the Age of E-commerce. *National Center for Sustainable Transportation*.
- 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

Lectern Presentations

- Blessy, K., & 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.
- Xiao, R., Jaller, M., Pahwa, A. & Cunha, C.B. (2025). *Data-Driven Approach for the Optimal Planning of Medium and Heavy-Duty Truck Charging Infrastructure*. 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

Dissertation Grant	2021
National Center for Sustainable Transportation Research Grant	
Fellowship	2017
National Center for Sustainable Transportation Research Fellowship	

SKILLS

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

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

PROFESSIONAL SERVICE

Committee Member

Transportation Research Group of India – Lifetime Member

Transportation Research Board: Standing Committee on Urban Freight Transportation – Friend

Peer-Reviewer

- Applied Sciences
- Central European Journal of Operations Research
- Civil Engineering and Environmental Systems
- Cogent Engineering
- Conference of Transportation Research Group of India
- Computers and Industrial Engineering
- IEEE Transactions on Transportation Electrification
- 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
- Systems
- Transportation in Developing Economies
- Transportation Letters: International Journal of Transportation Research
- 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

CE 5540 – Data Analysis and Computational Techniques for Transportation Engineers

CE 5810 – Urban Transportation Planning