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Building Sciences Block
IIT Madras, Chennai
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EDUCATION

Ph.D. September 2017 – June 2023 Dr. Miguel Jaller	University of California, Davis Civil and Environmental Engineering <i>Assessing Sustainability of E-commerce Goods Distribution.</i>
B.Tech. August 2013 – May 2017 Dr. Geetam Tiwari	Indian Institute of Technology – Delhi Civil Engineering <i>Indicators of Reliability and Variability in Bus Systems.</i>

WORK EXPERIENCE

Assistant Professor July 2024 – Present	Indian Institute of Technology – Madras Civil Engineering
Postdoctoral Scholar July 2023 – June 2024	Institute of Transportation Studies 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. (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., Lakhota, 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, Mapititude, ArcGIS, VS Code, Git

PROFESSIONAL SERVICE

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