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EDUCATION

Ph.D.	University of California, Davis Civil and Environmental Engineering	2017 - 2023
B.Tech.	Indian Institute of Technology – Delhi Civil Engineering	May 2017

RESEARCH EXPERIENCE

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

PUBLICATIONS

Journal Publications

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.

Journal Papers In Review/Preparation

Pahwa, A., & Jaller, M. (In Review). Exploring opportunities and challenges in freight co-routing. *Transportation Research Part D: Transport and Environment*.

White Papers

- Jaller, M., & Pahwa, A. (In Review). *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. (In Preparation). Overview of Innovations in Urban Freight. In *Handbook on City Logistics and Urban Freight*.

PRESENTATIONS AND INVITED LECTURES

Poster Presentations

- 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 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.

HONORS AND AWARDS

Dissertation Grant 2021
National Center for Sustainable Transportation Research Grant

Fellowship 2017
National Center for Sustainable Transportation Research Fellowship

PROFESSIONAL SERVICE

Peer-Reviewed Articles for:

- Applied Sciences
- 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 Research Board Annual Meeting
- Transportation Research Record
- Trauma care
- World Symposium on Transport and Land Use Research

SKILLS

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

Applications: TransCAD, Maptitude, ArcGIS, Git