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EDUCATION

Ph.D.	University of California, Davis Civil and Environmental Engineering	June 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

WORK EXPERIENCE

Postdoctoral Scholar	Institute of Transportation Studies University of California, Davis	July 2023 – Dec 2024
Supervisor	Dr. Miguel Jaller	

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 eco-routing. *Transportation Research Part D: Transport and Environment*.
- Pahwa, A., & Jaller, M. (In Preparation). Coping with the Rise of E-commerce Generated Home Deliveries through Innovative Last-Mile Tehcnologies 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 Tehcnologies 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

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 Planning and Technology
- Transportation Research Board Annual Meeting
- Transportation Research Part E: Logistics and Transportation Review
- 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, VS Code, Git