**ANMOL PAHWA**

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| Phone: [+91 44 2257 4275](tel:+91%2044%202257%20xxxx) | Room BSB 338 |
| E-mail: [anmpahwa@iitm.ac.in](mailto:anmpahwa@iitm.ac.in) | Building Sciences Block |
| Website: [lognitilab.github.io](https://lognitilab.github.io/) | IIT Madras, Chennai |
| URL: [civil.iitm.ac.im/faculty/anmpahwa](https://civil.iitm.ac.in/faculty/anmpahwa) | 600036 |

**EDUCATION**



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| --- | --- |
| **Ph.D.** | University of California, Davis |
| September 2017 – June2023 | 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., Lakhotia, 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., & 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.*

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***

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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| --- | --- |
| **Dissertation Grant** | 2021 |
| National Center for Sustainable Transportation Research Grant |  |
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| **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**



**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
* 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