

EDUCATION

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| 2022 – Present | Doctor of Philosophy
Transportation Research and Injury Prevention Centre (TRIP-C), Indian Institute Of Technology Delhi, India |
| 2020 - 2022 | Master of Technology
<i>Transportation Engineering</i>
Punjab Engineering College (Deemed to Be University), Chandigarh, India |
| 2016 - 2020 | Bachelor of Technology
<i>Civil Engineering</i>
National Institute of Technology Hamirpur, India |

RESEARCH EXPERIENCE

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| August 2022 – Present | Research Scholar
Transportation Research and Injury Prevention Centre (TRIP-C), IIT Delhi, New Delhi, India |
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Research interests:

- Understanding the emergence of micromobility and its implication with public transport in the Indian context.
- Health impact modelling of transport-related road crashes.
- Use of innovative data sources to estimate population-level travel patterns and traffic exposure.
- Travel behaviour and its social and built environment determinants.

- Doctoral Research

My research focuses on identifying optimal policies to support the adoption of micromobility like battery-operated vehicles (BOVs). It also aims to explore innovative datasets, such as GPS and trip data, to analyse built environment determinants and their integration with public transport systems.

PUBLICATIONS

1. **Bansal, A.**, Goel, R. 2024. A Systematic Review of Micromobility: Global Policy Frameworks and Legislative Implications. South Asia Cycles workshop, November 2024, New Delhi, India.
2. Parikh, P., **Bansal, A.**, Goel, R. 2024. Innovative methodology for evaluating Road Safety on National Highways in India: A case study of Haryana. 15th World Conference on Injury Prevention and Safety Promotion (Safety 2024) 2nd- 4th September 2024, New Delhi, India.
3. Goel, R., Kannan, S., Gupta, M., **Bansal, A.**, Bhalla, K. 2024. Centering electric bicycles in transport electrification: road safety as key to low-carbon, low-powered, and healthy transport in India. 15th World Conference on Injury Prevention and Safety Promotion (Safety 2024) 2nd- 4th September 2024, New Delhi, India.

CONFERENCES

- 15th World Conference on Injury Prevention and Safety Promotion (Safety 2024) 2nd- 4th September 2024 – Oral Presentation
- ESRI conference on ArcGIS Pro.
- South Asia Cycles Workshop by University of Chicago November 2024, New Delhi, India – Poster presentation

PROJECTS

- Bicycle Counter at Delhi Bus Stop (2024 - till date)

AI-based bicycle counters installed at designated bus stop locations in Delhi will enable real-time estimation and monitoring of bicycle volumes across the city.

- Analysis of crash data (2023 - ongoing)

Analysing the road crash data of Chandigarh by examining the FIRs related to road crash which are encoded in crash form database developed by TRIP – Centre.

- Road Safety Audit (February 2024 - Rishikesh)

Indulge in road safety audit programme conducted by TRIP Centre for BRO participants and IRC course participants.

AWARDS/SCHOLARSHIP

- Gate scholarship for the year 2020 -2022.
- Full time institutional assistantship from MHRD. (2022 - present)

TECHNICAL SKILLS

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| • Python – Big Data Analysis | • Web scraping and API fundamentals |
| • R and R studio | • Website servers and PHP |
| • QGIS (Open Street Map) | |

OTHERS

- Two-week IRC certification course on Road Safety Audit (RSA).
- Diploma course in civil softwares: - AutoCAD, Stadd/Pro - Course-2018.
- National Highways Authority of India - PIU Hamirpur (H.P.)
Done my field internship on road maintenance work of Shimla-Matour National Highway, which helped in gaining experience towards highway pavement work.
- Workshops on GTFS data analysis.

I hereby declare that the information provided here is true and accurate to the best of my knowledge.

Abhishek Bansal