

MUZZAMIL YASEEN



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Education

Ph.D. in Transportation & Environmental Engineering

National Institute of Technology (NIT) Mizoram, Aizawl, India

2021 – 2025

Course CGPA: 9.40

Thesis: Environmental and Public Health Impacts of Spatiotemporal Acoustic Vulnerability in Urban Landscapes under Multimodal Traffic Dynamics

M.Tech. in Transportation Engineering & Management

Maharshi Dayanand University, Rohtak, India

2016 – 2018

Percentage: 75.03% (2326 / 3100)

Dissertation: Impact of Roadside Bus Stops on Roadway Capacity and Environmental Sustainability in Kashmir, India

B.Tech. in Civil Engineering

Islamic University of Science & Technology (IUST), Awantipora, India

2011 – 2015

Course CGPA: 7.57

Publications

Journal Articles

- **Peer, M. Y.**, Mir, M. S., Mohanty, B., & Vanapalli, K. R. *Road traffic noise pollution and prevalence of ischemic heart disease: Modelling potential association and abatement strategies in noise-exposed areas.* Environmental Monitoring and Assessment, Springer, 2024. DOI: 10.1007/s10661-024-12916-4
- **Peer, M. Y.**, Mir, M. S., & Mohanty, B. *Impact of nocturnal road traffic noise and annoyance on self-reported insomnia symptoms: Policy intervention in noise-polluted environments.* Environmental Monitoring and Assessment, Springer, 2025. DOI: 10.1007/s10661-025-13646-x
- **Peer, M. Y.**, Mir, M. S., & Mohanty, B. *Evaluation of the spatiotemporal variations of road traffic noise pollution and public cognizance of associated health hazards within urban environments.* International Journal of Sustainable Transportation, 2025. DOI: 10.1080/15568318.2025.2526788
- **Peer, M. Y.**, Mir, M. S., Mohanty, B., Bilal, B., & Taley, W. R. *Spatiotemporal variability of road traffic noise and hypertension risk: Noise mapping and public health implications in exposed urban hotspots. (Under Proofreading).* DOI: 10.1080/23748834.2025.2588044

Conference Publications / Proceedings

- **Peer, M. Y.**, Mir, M. S., & Mohanty, B. *Assessment of noise pollution in urban residential complexes and awareness of potential health risks among residents in noise-sensitive areas.* 15th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC 2024), IIT Bombay. Springer: Transportation Planning and Sustainable Mobility, 2024. DOI: 10.1007/978-981-96-8114-3_9

- **Peer, M. Y.**, Ali, A., Bilal, M., & Bilal, B. *Sustainable and green transportation strategies for enhanced urban liveability: Quantifying emission reductions and accessibility improvements*. Second International Conference on Smart Mobility and Logistics Ecosystems, King Fahd University of Petroleum and Minerals, Saudi Arabia, 2026.
- Kasab, R. A., Gul, M., & **Peer, M. Y.** *Exploring the potential of cattail-based insulation material: A sustainable and cost-effective approach*. National Conference on Innovations in Science & Technology (IST-2024), NIT Srinagar.

Skills

- **Programming & Analytical Tools:** MATLAB, R
- **Modelling & Analysis:** Transportation and traffic engineering analysis, road traffic noise modeling and noise mapping, environmental acoustics and exposure assessment, public health impact analysis related to transportation systems
- **Spatial & Statistical Tools:** QGIS (GIS-based spatial analysis), SoundPLAN 8.2 (traffic noise simulation), SPSS (statistical analysis), TRANSYT (traffic signal and network analysis)
- **Design & Documentation:** AutoCAD, Microsoft Office (Word, Excel, PowerPoint), Mendeley
- **Field & Survey Skills:** Household and individual-level survey design, large-scale primary data collection, traffic and environmental field measurements
- **Academic & Professional Skills:** Scientific writing and peer-reviewed publication, data interpretation and reporting, teaching and laboratory assistance, student project supervision, interdisciplinary collaboration and stakeholder coordination

Experience

Reviewer 2025 – Present

- Reviewer for Environmental Monitoring and Assessment (Springer), Nature and Science of Sleep (Taylor & Francis), Current World Environment, and Bentham Science Publishers,

Doctoral Researcher (Ph.D. Scholar)

National Institute of Technology Mizoram

2021 – 2025

- Conducted doctoral research on spatiotemporal road traffic noise modeling and public health impacts under multimodal traffic conditions.
- Designed and administered large-scale household and individual-level surveys.
- Performed GIS-based spatial analysis, noise simulations using SoundPLAN, and statistical modeling using R, MATLAB, and SPSS.
- Published research in SCI-indexed journals and presented work at national and international conferences.

Junior Teaching Assistant

National Institute of Technology (NIT) Srinagar

October 2021 – November 2023

- Assisted in teaching Highway Engineering and Traffic Engineering courses.
- Conducted Highway Engineering Lab-I and Traffic Engineering Lab-II.
- Prepared laboratory manuals for B.Tech. (Civil Engineering) and M.Tech. (Transportation Engineering & Planning) programs.
- Assisted and supervised B.Tech. and M.Tech. student projects.
- Served as In-charge, Survey Camp (2018) at Dal Gate, Srinagar.

Lecturer

S.S.M. College of Engineering & Technology, Baramulla

June 2018 – February 2021

- Taught undergraduate courses in Highway Engineering, Traffic Engineering, and Surveying-II.
- Conducted laboratory sessions for Highway Engineering and Traffic Engineering.
- Mentored undergraduate students in transportation engineering projects and field surveys.

Projects

- **Estimation and Modelling of Level of Service for Urban Signalized Intersections** National Institute of Technology (NIT) Srinagar – Worked on estimation and modeling of Level of Service (LOS) for urban signalized intersections under heterogeneous traffic conditions.
- **Modelling of Entry Capacity at Roundabouts under Heterogeneous Traffic Conditions using PCU by Occupancy Time Method** National Institute of Technology (NIT) Srinagar – Developed a methodology to estimate roundabout entry capacity using PCU values based on occupancy time. – **Awarded Best Project Award (2023)**.
- **Investigation of Performance of Asphalt Mix by Replacement of Fine Aggregates with Steel Slag** National Institute of Technology (NIT) Srinagar – Studied the performance of asphalt mixes using steel slag as partial replacement of fine aggregates.
- **A Methodology for Comparative Assessment of Identification of Accident Blackspots in Road Networks** S.S.M. College of Engineering & Technology – Developed a comparative approach for identifying accident blackspots in road networks.
- **Waste Material-Based Pavement Design for Sustainable Infrastructure in Developing Countries** S.S.M. College of Engineering & Technology – Explored waste-material-based pavement design for sustainable infrastructure applications.
- **Impact of Coconut Shells and Glass Powder as Partial Replacement of Aggregates and Cement in Concrete: An Experimental Study** – Experimental project evaluating coconut shells and glass powder as partial replacements in concrete.

Extra-curricular Activities / Leadership Roles

- **Student President & Honorary Member**, Senate Committee, Department of Civil Engineering, National Institute of Technology (NIT) Mizoram
- **Member**, UG & PG Academic Committee, Department of Civil Engineering, National Institute of Technology (NIT) Srinagar
- **Student Member**, American Society of Civil Engineers (ASCE)
- **Student Member**, Institution of Civil Engineers (ICE)

I hereby declare that the information furnished above is genuine and authentic to the best of my knowledge.



Place: Pampore, Jammu & Kashmir (India)

Signature