

CURRICULUM VITAE

ASHAR AHMED

PhD Civil Engineering (Road Safety) 2016 Universiti Sains Malaysia
M.E Civil Engineering (Transportation) 2008 NED University of Engg. & Tech.
B.E Urban Engineering 2006 NED University of Engg. & Tech.

HEC Approved PhD Supervisor

Manager Intellectual Property – ORIC, NEDUET

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Assistant Professor, Department of Urban and Infrastructure Engineering, NED University of Engineering and Technology, Karachi, Pakistan..... (October 2008 to date)
Graduate Assistant at Universiti Sains Malaysia.....(September 2012-August 2015)
PhD Student at Universiti Sains Malaysia.....(August 2011-June 2016)
Lecturer, Department of Civil Engineering, NED University of Engineering and Technology, Karachi, Pakistan.....(January 2006 to September 2008)

List of Research Publications

Journals

- Ahmed, A., Sadullah, A. F. M., and Yahya, A. S. (2021). Analysis of the effect of directional traffic volume and mix on road traffic crashes at three-legged unsignalized intersections. *Transportation Engineering*, 3, 100052.
<https://doi.org/10.1016/j.treng.2021.100052>
- Gazder, U., Ahmed, A., and Shahid, U. (2021). Predicting Severity of Accidents in Malaysia by Ordinal Logistic Regression Models. *International Journal of Traffic and Transportation Management*, 3 (1), 11-16. DOI:10.5383/JTTM.03.01.002
- Ahmed, A., Sadullah, A. F. M., Yahya, A. S., Akhtar, M. N. and Azam, Q. (2020). How Accurate are Locations in Malaysian Accident Data? Development of a Rectification Procedure based on Nested Filtered Search Technique. *Transportation Research Procedia*, 48, 1125-1141. DOI:10.1016/j.trpro.2020.08.138
- Ahmed, A., Sadullah, A. F. M. and Yahya, A. S. (2019). The effect of type of attributes on the fill-ability of accident reporting forms (ARF). *International Journal of Traffic and Transportation Management*, 1 (2), 11-17. DOI:10.5383/JTTM.01.02.002
- Ahmed, A., Sadullah, A. F. M. and Yahya, A. S. (2019). Errors in accident data, its types, causes and methods of rectification-analysis of the literature. *Accident Analysis & Prevention*, 130, 3-21. <http://dx.doi.org/10.1016/j.aap.2017.07.018>
- Ahmed, A., Sadullah, A. F. M. and Yahya, A. S. (2016). Field study on the behavior of right-turning vehicles in Malaysia and their contribution on the safety of unsignalized intersections. *Transportation Research Part F: Traffic Psychology and Behaviour*, 42, Part 3, 433-446. <http://dx.doi.org/10.1016/j.trf.2015.03.006>
- Ahmed, A., Sadullah, A.F.M. and Yahya, A.S. (2015). Effect of roadside development on the safety of intersections without signals. *Applied Mechanics and Materials Vol. 802*, pp 393-398.
doi:10.4028/www.scientific.net/AMM.802.393

- Ahmed, A., Sadullah, A.F.M. and Yahya, A.S. (2015). Difference in the behavior of right-turning vehicles and their effect on safety at unsignalized intersections in Malaysia. *Jurnal Teknologi, Vol 76, No. 14, pp 37–41.*
<https://doi.org/10.11113/jt.v76.5840>
- Ahmed, A., Sadullah, A.F.M. and Yahya, A.S. (2015). Evaluating the contribution of physical parameters on the safety of unsignalized intersections. *Journal of Engineering Science and Technology Vol. 10, No. 5 (2015), pp 654 – 666.*
- Ahmed, A., Sadullah, A.F.M. and Yahya, A.S. (2014). Accident analysis using count data for unsignalized intersections in Malaysia. *Procedia Engineering Vol. 77, pp 45 – 52.*
<https://doi.org/10.1016/j.proeng.2014.07.005>
- Ahmed, A., Sadullah, A.F.M. and Yahya, A.S. (2013). Contemporary developments in the safety analysis of unsignalized intersections. *International Journal of Advancements Civil Structural and Environmental Engineering, Vol. 1, issue 1, pp 52 - 55.*

Conferences

- Ahmed, A., and Aijaz, B. (2023). "A Case-Study on Potential Applications of V2V Communication for Improving Road Safety in Pakistan", *2nd International Conference on Emerging Trends in Electronic and Telecommunication Engineering, 2023 (INTERACT 2023), March, Karachi, Pakistan.*
<https://doi.org/10.3390/engproc2023032017>
- Ahmed, A., Gazder, U., Sadullah, A.F.M. and Yahya, A.S. (2016). "An Account of Non-Parametric Analysis of Traffic Accidents at Unsignalized Intersections." *8th International Civil Engineering Congress (ICEC-2016), December 23-24, Karachi, Pakistan, pp 112-118.*
- Ahmed, A., Sadullah, A.F.M. and Yahya, A.S. (2015). Underreporting of serious and minor injury accidents in Malaysia. *MUTRFC 2015, Selangor, Malaysia.*
- Ahmed, A., Sadullah, A.F.M. and Yahya, A.S. (2015). Critical assessment of the infrastructure and vehicle type contributing most in fatal accidents in Penang, Malaysia. *CARS 2015, Kuala Lumpur, Malaysia.*
- Gazder, U., Ahmed, A., Sadullah, A.F.M. and Yahya, A.S. (2015). Accident analysis of unsignalized intersections. *7th International Civil Engineering Congress (ICEC 2015), June 12-13, Karachi, Pakistan, pp 161-167.*
- Ahmed, A., Sadullah, A.F.M. and Yahya, A.S. (2013). Studying the effect of geometric characteristics on crash severity at unsignalized intersections in Penang. *MUTRFC, Kuala Lumpur, Malaysia.*
- Ali, M. S., Ahmed, A. Sheikh, A. A. (2010). Activity - Based Trip Generation Modelling for Selected Urban Areas of Karachi, Pakistan. *Proceedings of the Third International Symposium on IEDC and first National conference on Transportation Engineering and Traffic Management 2010.* ISBN: 978-969-8620-10-3. pp 348 - 361.

Doctoral Thesis

- Ahmed, A. (2016). Safety Analysis of Unsignalized Intersections under Erroneous Road Crash Data Influence. PhD Thesis, School of Civil Engineering, *Universiti Sains Malaysia.* 14300 Penang, Malaysia.

Reviewer

Accident Analysis and Prevention - Elsevier
Traffic Injury Prevention - Taylor and Francis
Journal of Traffic and Transportation Engineering (English Edition) - Elsevier
Personal and Ubiquitous Computing - Springer
F1000Research
Scientia Iranica

Subjects Taught – Undergraduate

Highway Engineering-I
Highway Engineering-II
Traffic Engineering
Urban Mass Transportation
Introduction to Transportation Planning and Operations
Engineering Surveying-I
Engineering Surveying-II
Engineering Materials
Law and Regulatory Control Studies
Accident Investigation and Reconstruction (TTENG 544)
Traffic Safety Analysis and Prevention (TTENG 541)
Advance Topics in Traffic Safety (TTENG 504)
Principles of Urban Planning (TTENG 431)
Transportation Engineering–II (TTENG 332)
Transportation Engineering–I (TTENG 321)
Engineering Mathematics-I: Higher order differential equations (Tutorials)
Engineering Mathematics-II: Probability and Statistics (Tutorials)
Engineering Mechanics (Tutorials)
Concrete Technology (Tutorials)

Subjects Taught – Graduate

Transportation System Asset Management (UE-509)
Public mass transportation (CE-567)

Professional Affiliations

Member Pakistan Engineering Council (No. CIVIL/27528)
Member Institution of Engineers Pakistan

Administrative Responsibilities

- Member Board of Studies-Urban and Infrastructure Engineering Department
- Member Board of Review-Office of Research Innovation and Commercialization
- Manager Intellectual Property-Office of Research Innovation and Commercialization
- Class Advisor-Urban and Infrastructure Engineering Department
- In-charge of Community Service at Urban and Infrastructure Engineering Department
- Member Health Safety Engineering Committee-Urban and Infrastructure Engineering Department

Research Projects Completed

- “Computational Technique for the Rectification of Erroneous Crash Locations in Crash Data for Unsignalized Intersections”, Fundamental Research Grant Scheme (FRGS)-Ministry of Higher Education (MOHE) Malaysia, Grant No. 203/PAWAM6071257, December 2013 to November 2015, **MYR 0.835 million**.

Research Projects Ongoing

Title: **Toyota Road Improvement Project-TRIP**
Funding Agency: Indus Motors Company (Pvt) Ltd.
Award Date: 01-09-2022
Personnel: Dr. Afzal Ahmed, Associate Professor (PI)
Dr. Ashar Ahmed, Assistant Professor (Co-PI)
Duration: 1st November 2022 to 31st October 2024
Total Funding: **PKR 11.889 million**

List of Trainings Conducted

- “Patent Filing Guidelines and IP-Policy”, NED University of Engineering and Technology, Karachi, Pakistan, March 30, 2022.
- “How to identify the requirements of ISO 39001 RTSM standard”, PSQCA, Karachi, Pakistan, February 23, 2017.

List of Trainings Completed

- “Protection and Commercialization of Intellectual Property Rights”, by PARC-South Zone Agricultural Research Center, Karachi University Campus, Karachi, Pakistan, November 23, 2022.
- “Intellectual Property and Patentability”, by Karachi University Business School, Karachi, Pakistan, November 1, 2022.
- “Business and Sustainability”, by International Trade Centre, NED University of Engineering and Technology, Karachi, Pakistan, August 16, 2022.
- “International Advanced Training Course on Intellectual Property”, COMSTECH Secretariat, Islamabad, Pakistan, from July 27 to July 28, 2022.
- “IP and Commercialization”, Karachi University Business School, Karachi, Pakistan, from March 34 to March 4, 2022.
- “Research Grants Management for ORIC”, HEC, Karachi, Pakistan, from February 24 to February 26, 2022.
- **“Higher Education teachers Training”, NED University of Engineering and Technology, Karachi, Pakistan, from October 1, 2019 to December 30, 2019.**
- “4th Malaysian Workshop on Crash Investigation and Injury Analysis” conducted by Malaysian Institute of Road Safety Research (MIROS), Hotel Bangi, Putrajaya from August 4 to 6, 2015.
- “3rd National Training Workshop on ORE MICROSCOPY” conducted by Geoscience Advanced Research Laboratories, Geological Survey of Pakistan, Islamabad from April 26 to 30, 2010.
- “Training course on VisioWay Open Counter” organized by Transportation Engineering Department, Exponent Engineers, Karachi, Pakistan from February 4 to 12, 2009.
- “Training of Presiding Officers” conducted by Support to National Elections in Pakistan, UNDP and Election Commission of Pakistan on 26th January 2008.

- “Course on GIS and Imagery Based Geospatial Analysis” conducted by Centre for Continuing Engineering Education, NED University of Engineering and Technology, Karachi from June 18 to 21, 2007.
- “International Training Course on Remote Sensing and Digital Image Processing” organized by Remote Sensing Applications Division, SUPARCO from December 18 to 29, 2006.
- “Technical Training on SOKKIA GPS RADIANT IS, SOKKIA TOTAL STATION SET-2030R3, SOKKIA DIGITAL LEVEL SDL 30, SOKKIA 12D ROADING SOFTWARE” held at the Department of Civil Engineering, NED University of Engineering and Technology, Karachi from December 11 to 16, 2006.

Personal Information

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