



CURRICULUM VITAE

Raed Mohammad Abendeh

Assistant Professor of Civil Engineering
Amman, Jordan

Phone: 00962-772681295

E-mail: R.Abid@Jadara.edu.jo,

Googlescholar:

<https://scholar.google.com/citations?hl=en&user=IFVBrI0AAAAJ>

Scopus:

<https://www.scopus.com/authid/detail.uri?authorId=57221731566>

Linkedin: <https://jo.linkedin.com/in/rana-i-abid-28206746>

Research Gate: <https://www.researchgate.net/profile/Rana-Abid-2>



1. Education

Abid obtained her Bachelor of Science (B.C.) degree from Jordan University of Science and Technology in 2010. She then pursued her Master's degree at the University of Jordan, which she completed in 2015. In 2021, she earned her Ph.D in Transportation Engineering from Atatürk University in Turkey.

2. Ph.D. Dissertation

Fractal Analysis of Turkey's Transportation Systems, Atatürk University, Erzurum, Turkey.

3. Employment

Academic Positions

- Assistant Professor, Department of Civil Engineering, Jadara University, Jordan. October 2023-Present.
- Assistant Professor and HoD, Department of Civil Engineering, American University of Madaba (AUM), Jordan. March 2022- February 2023.

Non-Academic Positions

- Transportation Engineer, Public Transport Directorate, Greater Amman Municipality, Amman, Jordan, 2012–2022

4. Research Interests

- Transportation Engineering
- Traffic Management
- Bus operation
- Urban Planning
- Traffic Studies
- Modeling and Simulation
- Transportation Studies Statistical Analysis
- ITS Applications



- Public Transport Studies

5. **Teaching Experience**

Undergraduate Courses

- Transportation Engineering
- Traffic Engineering
- Highway Geometric Design
- Surveying
- Pavement Design
- Special Topics in Transportation
- Highway Engineering Lab
- Surveying Lab
- Advanced Surveying
- Hydrology
- Special Topics in Civil Engineering
- Introduction to Civil Engineering
- Engineering Economics
- Engineering Dynamics
- Geographical Information System (GIS)
- Railway Engineering
- Urban Planning
- Dynamics
- Statics

Thesis Committee Serving

- 1) Evaluation of the Impact of Air and Noise Pollution on Schools Through Nearby Traffic With Different Road Characteristics and Land Use Types, by Lubna Alomari, Master of Architecture and Design, Jordan University of Science and Technology, 2025 (External Examiner).

6. **Professional Experience**

- 1) Trainer of Bus Rapid Transit Planning Guideline Online Training Course for Greater Amman Municipality and other government agencies employees, 8- 29 November 2020.
- 2) Trainer of On Street Parking Management System Case Study of Amman Online Training Course for Greater Amman Municipality employees, 30 August- 3 September 2020

7. **Membership in Scientific Societies and Associations**

- **National:** Jordan Association of Engineers (Member No. 123325).

8. **Scholarships and Fellowships**

- Turkey Scholarships Alumni, 2021

9. **Professional Development**

- Participated in 3 international conferences in the past 5 years



- Online Training in PTV Vissim. Amman, Jordan, 2021
- Online Training in PTV Visum. Amman , Jordan, 2021
- Online Training in Statistical Analysis using Minitab. Amman, Jordan, 2020
- Seminar on Urban Traffic and Transport Planning for Developing Countries. Fujian, Republic of China | 25 June – 15 July, 2015.
- SOLUTIONS Mediterranean Final Workshop and Training Event. Istanbul, Turkey, 2015
- Urban mobility and social inclusion - Planning accessibility for more sustainable cities workshop, Casablanca, Morocco, 2014
- Regional Training in Sustainable Transport, Bus Improvement and Bus Rapid Transit, Amman, Jordan, 2013
- Training in Urban Transportation Management and Organization, Amman, Jordan, 2012.

10. Publications

Papers in refereed journals

- GIS and Machine Learning for Identifying Crash Hotspots: Amman, Jordan as a Case Study. Transportation Research Procedia 96 (2026) 669–676.
- An Inquiry into Amman Bus Rapid Transit Elements. Materials Research Proceedings, ISSN: 2474-3941 (print), ISSN: 2474-395X (online), 2024
- Fractal analysis of urban growth in complex systems, Edelweiss Applied Science and Technology, ISSN: 2576-8484 Vol. 8, No. 6, 2133-2140, 2024.
- Identifying Spatial Patterns of Road Accidents in Madaba City by Applying Getis-Ord Gi* Spatial Statistic, International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249-8958 (Online), Volume-13 Issue-3, February 2024
- The Fractal Geometry of Turkey's Urban Transportation Networks. KSCE Journal of Civil Engineering (2021) 25(4):1455-1466.
- Fractal Dimensions of Road Networks in Amman Metropolitan Districts. Alexandria Engineering Journal (2021) 60(4): 4203-4212

Conference Presentations

- Sustainable, Resilient, and Smart Cities: An Analytical Study of Smart Mobility in Amman, Jordan. 7th Arab Housing Conference 2022– Cairo, Egypt| 18 –20 December 2022.
- The Fractal Dimensions of Road Network A Study of Jordan Governorates, 7th International Conference on Science, Technology, and Interdisciplinary Research, 3rd International Conference on Materials and Manufacturing Engineering and Technology, 4th International Materials, Industrial, and Manufacturing Engineering Conference, and International Conference of Industrial, Mechanical and Electrical Engineering 2021. Brunei Darussalam 2012
- The Role of Traffic Control Center in Traffic Management for Amman City. Transist 2017, 10 International Symposium and Exhibition on Transportation Technologies. Istanbul, Turkey, 2017
- Statistical Models of Heavy Vehicles Fuel Consumption for Greater Amman Municipality Fleet using Automated Vehicle Location System. Transist 2017, 9 International Symposium and Exhibition on Transportation Technologies. Istanbul, Turkey, 2016



- Development of a Control Delay Model for Roundabouts in Amman. Transist 2017, 9 International Symposium and Exhibition on Transportation Technologies. Istanbul, Turkey, 2016
- The Role of Sydney Coordinated Adaptive Traffic System (SCATS) in Traffic Control for Amman City. Transist 2017, 9 International Symposium and Exhibition on Transportation Technologies. Istanbul, Turkey, 2016
- Effectiveness of OnStreet Parking Management System in Amman. Transist 2015, 8 International Symposium and Exhibition on Transportation Technologies. Istanbul, Turkey, 2015.