

RANA ABID



PROFILE

Nationality: Jordanian

Birth Date and Place:
12/08/1988, Salt, Jordan

Marital Status: Married

Gender: Female

Languages: Arabic, English, Turkish

FIELD OF INTERESTS:

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

CONTACT

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WORK EXPERIENCE

Jadara University, Engineering Faculty, Civil Engineering Department, October 2023- Present.

- Assistant Professor in Traffic/ Transportation Engineering, October 2023- Present.

The American University of Madaba (AUM), Engineering Faculty, Civil Engineering Department, March 2022- February 2023.

- Head of Civil Engineering Department, October 2022- February 2023
- Assistant Professor in Traffic/ Transportation Engineering, March 2022- February 2023.

Courses I teach:

- 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

Public Transport Directorate, Greater Amman Municipality, Amman, Jordan, 2012–2022

• BRT OPERATION DEPARTMENT:

- The technical team leader of Amman BRT Feeders Project.
- The technical team leader of Amman vision public transport routes evaluation project (Review the submitted operational plans in order to propose new operational plans and rationalize the public transport routes to capture the changes in public transport demand).
- Assess the current situation of Amman's BRT soft operation to help the consultant adopt the proper KPIs for the official operation process.
- Participating in reviewing and assessing the different reports (demand and revenue report, depot report, operation plan report, etc.) of Amman BRT Integrated combined operation plan (ICOP)
- Member of ESAP Committee for Amman Bus project.
- Member of preparing public transport sector drivers' code of conduct committee.
- Member of traffic management projects (on -street parking management system, bus stations project).
- Participating in reviewing the technical offers for buses procurement projects

ACTIVITIES AND INTERESTS

Reading
Travel

- Participating in reviewing and tracking national projects like smart cities, the national ITS in public transportation project, ICOP for Amman's BRT.
- Participating in following the process of Amman's Model Calibration and Validation (VISUM and VISSIM models) and evaluating model's results.
- Participating in microsimulation projects using Vissim Software.
- Extracting and presenting forecasting data from Visum software.
- Participating in assessing the results from traffic counts for different projects
- Participating in different types of transportation studies and projects like , Amman Transport and Mobility Master Plan (TMMP), Amman BRT II.
- Participating in collecting and analyzing transportation data and carrying different types of studies regarding to the directorate scope of work.

• TRAFFIC CONTROL CENTER:

- Monitoring Sydney Coordinated Adaptive Traffic System (SCATS) which is connecting most of traffic signals within Amman city.
- Designing New Traffic signals for signalized intersection and connecting it with SCATS
- Retiming traffic signals times relating to different changes in traffic circulation around the intersections
- Extracting monthly reports from SCATS regarding to different traffic elements (volumes, timing) and analyzing the data relating to the scope of the study.
- Monitoring the safety of tunnels and bridges within Amman City through traffic cameras
- Extracting all reports related to GAM's heavy vehicle by using Automated Vehicle Location System (AVL)

EDUCATION

Ataturk University, Erzurum, Turkey, 2021

PhD of Civil Engineering/ Transport Engineering, Excellent (4.0/4.0)
Fractal Analysis of Turkey's Transportation Systems (PhD dissertation)

University of Jordan, Amman, Jordan, 2016

Master of Civil Engineering/Transport Engineering, Excellent (3.94/4)
Effectiveness of On- Street Parking Management System in Amman (Master Thesis).

Jordan University of Science and Technology, Irbid, Jordan, 2010

Bachelor of Civil Engineering/Transport Engineering, Good (73.8/100)

Maymoneh bent Al-Harth Secondary School, Irbid, Jordan, 2006

Scientific Stream, (92.4/100)

ACADEMIC PUBLISHINGS

An Inquiry into Amman Bus Rapid Transit Elements

Rana Ibrahim Abid

1st International Conference on Civil and Environmental Engineering for Resilient, Smart and Sustainable Solutions, Materials Research Proceedings, ISSN: 2474-3941 (print), ISSN: 2474-395X (online)

Fractal analysis of urban growth in complex systems

Rana Ibrahim Abid

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

Rana Ibrahim Abid

International Journal of Engineering and Advanced Technology (IJEAT)
ISSN: 2249-8958 (Online), Volume-13 Issue-3, February 2024

The Fractal Dimensions of Road Network A Study of Jordan Governorates.

Rana Ibrahim and Ahmet Tortum

AIP Conference Proceedings 2676, 060001 (2022)

The Fractal Geometry of Turkey's Urban Transportation Networks.

Rana Ibrahim Abid and Ahmet Tortum.

KSCE Journal of Civil Engineering (2021) 25(4):1455-1466.

Fractal Dimensions of Road Networks in Amman Metropolitan Districts.

Rana Ibrahim Abid, Ahmet Tortum, Ahmet Atalay.

Alexandria Engineering Journal (2021) 60(4): 4203-4212

ACHEVIMENTS

Turkey Scholarships alumni, 2021

Trainer of Bus Rapid Transit Planning Guideline Online Training Course for Greater Amman Municipality and other government agencies employees, 8- 29 November 2020.

Trainer of On Street Parking Management System Case Study of Amman Online Training Course for Greater Amman Municipality employees, 30 August- 3 September 2020

Peer Reviewer Contribution for Arabian Journal of Geosciences.

CONFERENCE PAPERS

- Participant in 7th Arab Housing Conference 2022– Cairo, Egypt | 18 – 20 December 2022. Paper: Sustainable, Resilient, and Smart Cities: An Analytical Study of Smart Mobility in Amman, Jordan.

- Participant in 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 | 7 – 8 December 2021. Paper: The Fractal Dimensions of Road Network A Study of Jordan Governorates.

- Participant in Academic Session for Transist 2017, 10 International Symposium and Exhibition on Transportation Technologies – Istanbul, Turkey | 8 November – 10 November 2017. Paper: The Role of Traffic Control Center in Traffic Management for Amman City.

- Participant in Academic Session for Transist 2016, 9 International Symposium and Exhibition on Transportation Technologies – Istanbul, Turkey | 1 December – 3 December 2016. Paper: Statistical Models of Heavy Vehicles Fuel Consumption for Greater Amman Municipality Fleet using Automated Vehicle Location System.

- Participant in Academic Session for Transist 2016, 9 International Symposium and Exhibition on Transportation Technologies – Istanbul, Turkey | 1 December – 3 December 2016. Paper: Development of a Control Delay Model for Roundabouts in Amman.
- Participant in Academic Session for Transist 2016, 9 International Symposium and Exhibition on Transportation Technologies – Istanbul, Turkey | 1 December – 3 December 2016. Paper: The Role of Sydney Coordinated Adaptive Traffic System (SCATS) in Traffic Control for Amman City.
- Participant in Academic Session for Transist 2015, 8 International Symposium and Exhibition on Transportation Technologies – Istanbul, Turkey | 17 December - 19 December 2015. Paper: Effectiveness of On-Street Parking Management System in Amman (Master Thesis)

WORKSHOPS & TRAINING COURSES

- Online Training in PTV Visum (Introduction to Macroscopic Network Modelling) | 16 to 18 March 2021
- Online Training in PTV Vissim (Modeling Vehicle- Actuated Signal Programs with VisVAP) | 1 and 2 March 2021
- Online Training in PTV Vissim (Public Transport Modeling and Realistic Pedestrian Simulation with Viswalk) | 15 and 17 February 2021
- Online Training in PTV Vissim (Driver Behavior Definition, Scenario Management, Evaluations and Visualization of Traffic Models) | 9 and 11 February 2021
- Online Training in PTV Vissim (Introduction to Microscopic Traffic Flow Simulation) | 30 training course hours- 10 to 13 August 2020
- Online Training in Statistical Analysis using Minitab | 9 training course hours- 17 June 2020
- 2015 Seminar on Urban Traffic and Transport Planning for Developing Countries– Fujian, Republic of China | 25 June – 15 July 2015.
- CODATU XVI Conference – Istanbul, Turkey | 5 February 2015 | SOLUTIONS Mediterranean Final Workshop and Training Event.
- CIVITAS FORUM 2014 – Casablanca, Morocco | 23 September – 26 September 2014 | Urban mobility and social inclusion - Planning accessibility for more sustainable cities.
- Training in AutoCAD Civil 3D- Modern Scientific Standard Academy, Amman, Jordan | 18 training course hours- 24 October -07 November 2014
- Regional Training in Sustainable Transport, Bus Improvement and Bus Rapid Transit – Amman, Jordan | 2 and 3 December 2013.
- Training in Urban Transportation Management and Organization – Amman, Jordan | 11 December- 27 December 2012
- Training in 2D AutoCAD (R2008)– Engineers Training Center, Amman, Jordan | 30 training course hours- 21 August -13 September 2008
- Training PROKON 2007– Engineers Training Center, Amman, Jordan |

27 training course hours- 8 -21 June 2009

- Geographical Information System (GIS)– The Consultative Center of Science and Technology, Irbid, Jordan | 20 training course hours- 8, 15, 19 November 2008

REFERENCES

Prof. Dr. Mohammed Taleb Obaidat
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Prof. Dr. Adli Al- Balbisi
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KEY SKILLS AND CHARACTERISTICS

- Ability to use BENOT, GIS, AutoCAD, SPSS, VISSIM and VISUM software
- Ability to participate in transportation studies with different scope of work
- Ability to learn new software and programs
- Ability to follow instructions well

- Ability to learn fast
- Ability of using computer and internet
- Team worker