FACULTY VITAE

1. **Name:** Rana Imam
2. **Academic Rank:** Professor
3. **Education:**

* PhD, Civil Engineering, University College London (UCL) , London , England, 2008
* Masters of Science, Transportation Engineering, American University of Beirut , 2003
* Bachelor of Science, Civil Engineering, American University of Beirut , 2001

1. **Academic Experience:**

* The University of Jordan, Professor, 2020 to present, full time
* The University of Jordan, Associate Professor, 2014 to present, full time
* The University of Jordan, Assistant Professor, 2010 to 2014, full time
* University College London, Research Fellow, 2003-2008, full time

1. **Current membership in professional organizations:**

* Jordan Engineers Association
* Member of European Union – Cost Action Group 619- Buses with High Level of Service
* Member of the Transport Planning Network, London, UK
* Member of the Women’s Transport Seminar, London, UK

1. **Service activities (within and outside of the institution):**

* Board Member of the JEA’s Center for Studies and Research (July 2019-ongoing
* Board Member of the International Academy Amman (Sep 2019-ongoing)
* Scholar at the Jordan Strategy Forum (2014-ongoing)
* Chairperson of the International Academy Amman PTA (2018-2019)
* Vice-Chair of the International Academy Amman PTA (2017-2018)
* Assistant Dean, School of Engineering, The University of Jordan, 2012-2014

1. **Selected Published Research in the Last Five Years:**

* Bashir, K., **Imam, R.**, Sharan, A., and AlSoud, A. Implementation of a Double Continuous Flow Intersection in Riyadh. Periodica Polytechnica Transportation Engineering, DOI: [10.3311/PPtr.16506](http://dx.doi.org/10.3311/PPtr.16506).
* **Imam, R.**, Murad, Y., Asi, I., and Shatnawi, A (2021). Predicting Pavement Condition Index from International Roughness Index using Gene Expression Programming. Innovative Infrastructure Solutions, 6(3), DOI: [10.1007/s41062-021-00504-1](http://dx.doi.org/10.1007/s41062-021-00504-1).
* Al-Mistarehi, B., Al-Omari, A., Taamneh, M., **Imam, R.**, and Khafaja, D (2021). The Effects of Adding Nano Clay and Nano Zinc Oxide on Asphalt Cement Rheology. Journal of King Saud University- Engineering Sciences, DOI: 10.1016/j.jksues.2021.03.010.
* **Imam, R.**, Kang, S.C., and Quezada, D. (2020). Exploring Low-Carbon Bus Options for Urban BRT Systems: The Case of Amman. Journal of Public Transportation, 22(1), pp. 57-75, DOI: 10.5038/2375-0901.22.1.4.
* **Imam, R.** and Ayadi, O. (2020). Powering Electric Tower Cranes by Solar Energy for Sustainable Construction. International Journal of Construction Management, DOI: 10.1080/15623599.2020.1814940.
* Al-Habarnih, F. and **Imam, R.** (2020). Optimal Locations of Charging Stations for Electric Vehicles in Amman, Jordan. International Review of Civil Engineering, 11(5), pp. 206-213.
* Alsarayreh, D. and **Imam, R.** (2020). Analysis of Driver Fatigue by Using Log-Linear Models. Advances in Transportation Studies, an International Journal, 52, pp. 23-42.
* Rashed, O. and **Imam, R.** (2020). A Functional and Operational Comparison between Signalized and Unsignalized Roundabouts. International Journal of Engineering Research and Technology, 13(6), pp. 1448-1454.
* **Imam, R.** (2020). Assessing the Effects of Street Trees on Asphalt Concrete Pavement Performance. ARPN Journal of Engineering and Applied Sciences, 15(10), pp. 1120-1128.
* Abu Hajar, H., Tweissi, A., Abu Hajar, Y., Al-Weshah, R., Shatanawi, K., **Imam, R**., Murad, Y., and Abu Hajer, M. (2020). Assessment of the Municipal Solid Waste Management Sector Development in Jordan towards Green Growth by Sustainability Window Analysis. Journal of Cleaner Production, 258, 128539. DOI: https://doi.org/10.1016/j.jclepro.2020.120539.
* AlShannaq, M. and **Imam, R.** (2020). Evaluating the Safety Performance of Roundabouts. Transport Problems, 15(1), pp. 141-152.
* Al-Madadhah, A. and **Imam, R.** (2020). Developing Trip Generation Rates for Restaurants in Amman. International Journal of Information, Business and Management, 12(2), pp. 69-79.
* Al-Majali, S. and **Imam, R.** (2019). Analysis of Pedestrian Accidents in Amman, International Journal of Civil Engineering and Technology, 10(12), pp. 240-251.
* Murad, Y., **Imam, R.**, Abu Hajar, H., Habeh, D., Hammad, A., and Shawash, Z. (2019). Predictive Compressive Strength Models for Green Concrete. International Journal of Structural Integrity, 11(2), pp.169-184.
* **Imam, R.** (2018). Cost Reduction of Driven Pipe Piles Due to Incorporating Pile Setup Capacity. ARPN Journal of Engineering and Applied Sciences, 13(23), pp. 9298-9305.
* Delatte, A., Baouni, T., Belwal, R. Daou, L., Gourram, D., **Imam, R.**, Zitoun, M. S., and Smadi, A. (2018) Understanding the Needs of Mena Public Transport Customers: Culture of Service and Gender Responsive Recommendations. TEMA: Journal of Land Use, Mobility and Environment, Special Issue 1, pp. 7-30.
* Al Maaiteh, M. and **Imam, R.** Determination of Expansion Factors to Estimate Average Annual Daily Traffic for Arterials in Amman, Jordan Journal of Civil Engineering. Accepted for publication, July 2018.
* **Imam, R.** Measuring Public Transport Satisfaction from User Surveys, International Journal of Business and Management, 9(6), 2014.
* Tarawneh, B. and **Imam, R.** Regression versus Artificial Neural Networks: Predicting Pile Setup from Empirical Data, KSCE Journal of Civil Engineering, 18(5), 2014.
* Salameh, B. and **Imam, R.** Developing Roadway Traffic Noise Prediction Models for the City of Amman, Journal of American Science, 12(2s), pp.23-30, 2014.
* Mofeed, B., **Imam, R.**, and Jamrah, A., Noise Mapping using GIS: A Case Study from Amman, Journal of American Science, 9(12), pp. 646-652, 2013
* Sweis, G., **Imam, R.**, Kassab, G., and Sweis, R. Customer Satisfaction in Apartment Buildings: The Case of Jordan, Life Science Journal, 10(12s), pp. 237-245, 2013.

***Conference Publications***

* Development of Crash Prediction Models for Roadway Segments in Jordan, The Second Balq’a International Engineering Conference (BIEC 2019), Dec 2019, Dead Sea, Jordan.
* Analysis, Appraisal & Evaluation of BRT Systems, The Third Annual Traffic Management & Bus Priority Conference, July 2011, Liverpool, England.
* Hybrid Electric Technology for Transit Buses: Social Impact and Sustainability, The International Conference and Exhibition on Knowledge-Based Business, Industry and Education (KBIE 2011), January 2011, Manama, Bahrain.
* Conserving Carpets: Cultural and Inclusive Exhibition of Living and Labour Areas, 12th International Conference on Transport for Elderly and Disabled Persons, Hong Kong, June 2010.
* Advancements in Hybrid Electric Technology for Transit Buses, Trolley Motion Conference: New Horizons for Urban Traffic, Zurich, November 2008.
* Modelling Demand of Feeder Buses: Case Study East London Transit, World Conference on Transport Research Studies, University of California, Berkeley, June 2007.
* Increasing the Viability of Socially Necessary Transport Systems, 11th International Conference on Transport for Elderly and Disabled Persons, Montreal, June 2007.

1. **Most recent professional development activities:**

* Teaching Ethics from an Applied Perspective Training Course, The University of Jordan, November 2019.
* Project-Based Learning Training Course, The University of Jordan, August 2019.
* How to Publish in Scopus Journals Training Course, The University of Jordan, July 2019.
* Electric Mobility in Jordan: Setting the Stage for a Future-Oriented Transport System, Global Green Growth Institute (GGGI), Amman, February 2019.
* Railway Design, Management, and Rehabilitation, Jordan Engineers Association (JEA), Amman, June 2018.
* Public Transport Reform in Jordan, Economic and Social Council, Amman, January 2018.
* Resilience, Responsibility, Responsiveness: Towards a Future-oriented, Sustainable World Economy, B20 Summit, Berlin, May 2017.
* Training on Rail Safety, Interoperability, and Structural Reforms for Jordan, Ministry of Transport – EUROMED Project, Amman, September 2013.
* Head of the Preparation Committee of the following manuals delivered to the Ministry of Public Works and Housing, Jordan:
  + Safety Audit Manual
  + Black Spot Manual
  + Traffic Signs & Control Devices Manual
  + Work Zone Traffic Control Manual