



- 1. Name and Academic rank:** Rouba A. Joumblat, Assistant Professor, Faculty of Engineering.
- 2. Education: Degrees, discipline, institution and date:**
 - Ph.D. Civil Engineering – Public Works- Beirut Arab University, Beirut, Lebanon 2017-2022.
 - Master of Engineering- Public Works- Beirut Arab University, Beirut, Lebanon 2017.
 - B.E in Civil and Environmental Engineering – Beirut Arab University- Beirut, Lebanon 2016.
- 3. Academic experience**
 - Beirut Arab University, Assistant Professor, September 2022 – Present.
 - Beirut Arab University, Lecturer, September 2017 – August 2022, Full Time.
 - Beirut Arab University, Graduate Assistant, September 2016 – May 2017.
- 4. Nonacademic experience**
 - 2013: Khatib and Alami, Beirut, Lebanon, Public Works Department.
 - 2014: Senmarec Engineering for Consultancy, Beirut, Lebanon, Structural Department.
 - 2015: Jamil Ibrahim Establishment, Beirut, Lebanon Site Engineer.
- 5. Certification or professional registration**
 - Civil Engineer - Member of the Order of Engineers & Architects of Beirut.
- 6. Current Membership in professional organization**
 - RILEM youth council representative for the Middle East and North Africa (MENA) region.
 - Member of the American Society of Civil Engineers ASCE.
 - Member of The International Union of Laboratories and Experts in Construction Materials, Systems and Structures (RILEM).
 - Transportation Research Board (TRB)
 - Committee on Structural Requirements of Asphalt Mixtures “AFK50”.
 - Committee on Design and Rehabilitation of Asphalt Pavements “AFD60”
- 7. Honors and Awards:**
 - Scholarship for Continuous Study, PhD Degree, Public works department, Beirut Arab University, 2017.
 - Scholarship for Continuous Study, Master Degree, Public works department, Beirut Arab University 2016.
 - Second place post of the Engineering day at BAU, Project: Suspended Steel Building 2016.
 - BE with distinction from Beirut Arab University, 2016.



8. Service activities

Beirut Arab University (2017 - Present):

- Teaching: Transportation Planning and Traffic Engineering Traffic Safety, Highway Engineering, Asphalt Binders and Mixtures for Pavements, Advanced Pavement Design and Analysis, Highway Maintenance (Engineering Faculty).
- Supervising of Masters and Final Year Project Students.
- Assisting students in the Highway and Pavement Engineering Laboratory.
- Student Activities Member.

Peer-Reviewer (2019 - Present):

- Transportation Research Record.
- Environmental Science and Pollution Research.
- Buildings.
- Geographies.

9. Principal publications and presentations

9.1 Journal Proceedings

- **Joumblat, R.A.,** Kassem, H., & Elkordi, A. (2024). Use of alternative recycled fillers in bituminous mixtures. In *Advanced Upcycling for by-products and binder-based materials*, 335-356.
- Barra, F., **Joumblat R. A.,** & Elkordi, A. (2024). Evaluation of the validity of a minimum VMA requirement in Superpave Mixtures. *International Journal of pavement research and Technology*.
- **Joumblat, R. A.,** Al Basiouni Al Masri, Z., Ghazi al Khateeb, Absi, J., & Elkordi, A. (2023). Performance Evaluation of Hot-Mix Asphalt with Municipal Solid Waste Incineration Fly Ash Using the Stress Sweep Rutting Test. *Innovative Infrastructure Solutions*.
- **Joumblat, R. A.,** Al Basiouni Al Masri, Z., & Elkordi, A. (2023). Dynamic Modulus and Phase Angle of Asphalt Concrete Mixtures containing Municipal Solid Waste Incinerated Fly Ash as Mineral Filler Substitution. *International Journal of pavement research and technology*.
- Merhebi, G. H., **Joumblat, R. A.,** & Elkordi, A. (2023). Assessment of the effect of different loading combinations due to truck platooning and autonomous vehicles on the performance of asphalt pavement. *Sustainability*.



- **Joumblat, R. A.,** Al Basiouni Al Masri, Z., Abed ElRahman Tallis., Ghazi al Khateeb, Absi, J., & ElKordi, A. (2023). State-Of-The Art Review on Permanent Deformation Characterization of Asphalt Concrete Pavements. *Sustainability*.
- **Joumblat, R. A.,** Al Basiouni Al Masri, Z., Absi, J., & ElKordi, A. (2023). Characterization of Asphalt Concrete Mixes with Municipal Solid Waste Incineration Fly Ash used as Fine Aggregates Substitution. *International Journal of Pavement Engineering*.
- **Joumblat, R. A.,** Al Basiouni Al Masri, Z., Absi, J., & ElKordi, A. (2023). Investigation of using municipal solid waste incineration fly ash as alternative aggregates replacement in hot mix asphalt. *Road Materials and Pavement Design*, 1-20.
- El-Bastawissi, I., El Baba, N., Khalil, S., El Hage, N., **Joumblat, R. A.,** & Gatzweiler, F. (2022). Partial Systems Analysis of Traffic Noise Reduction in Tarik Al Jadidah, Beirut. *BAU Journal-Science and Technology*.
- Abou Shakra, J., **Joumblat, R.,** Khatib, J., & Elkordi, A. (2020). Corrosion of coated and uncoated steel reinforcement in concrete. *BAU Journal-Science and Technology*, 2(1), 4.

9.2 Conference Proceedings

- Ramadan. S., Elkordi. A., and **Joumblat. R.** (2024). Usage of Construction Demolition Waste (CDW) in Hot Mix Asphalt (HMA)- A comprehensive Overview. 2nd International Workshop on BioMaterials in Pavement- Proceedings.

10. Professional development activities

- Research Mobility: Universidade de Santiago de Compostela, Spain, April 2022- August 2022.
- Workshop of Safe Roadway and Highway Design, Al Balqua Applied University Amman, Jordan, Erasmus plus (EU project), October 2018.
- Workshop of Road Design, Linkoping University, Linkoping, Sweden, Erasmus plus (EU project), October 2017.
- Workshop of Traffic Safety and Road Auditing, Gdansk University of technology, Menasafe, Erasmus plus (EU project), Gdansk, Poland, April 2017.