



YAZEED S. JWEIHAN

ASSISTANT PROFESSOR IN CIVIL ENGINEERING

◦ DETAILS ◦

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Date of birth
21/06/1989

Nationality
Jordanian

Marital Status
Married

◦ LINKS ◦

[SCOPUS](#)
[Google Scholar](#)
[ORCiD](#)
[ResearchGate](#)
[LinkedIn](#)

◦ SKILLS ◦

AutoCAD

SketchUP

MATLAB

Python

PRIMAVERA

SPSS

PERSON PROFILE

Dr. Yazeed Jweihan is an Assistant Professor in Civil Engineering with academic teaching and research experience in the Civil and Environmental Engineering (CEE) Department at Mutah University since December 2019. Dr. Jweihan received his Ph.D. and MSc. in Civil Engineering from the University of Texas at Arlington (USA) with an excellent GPA of 4.0/4.0. His research interests include pavement and asphalt mix materials, cementitious materials, concrete properties, sustainability in construction, and applications of machine learning in civil engineering.

EDUCATION

PhD in Civil Engineering, The University of Texas at Arlington, USA
January 2018 — December 2019

MSc. in Civil Engineering, The University of Texas at Arlington, USA
January 2016 — December 2017

BEng in Civil Engineering, Mutah University, Jordan
September 2007 — August 2011

EMPLOYMENT HISTORY

Assistant Professor in Civil Engineering at College of Engineering, Mutah University, Jordan
December 2019 — Present

Head of the Civil and Environmental Engineering Department at College of Engineering, Mutah University, Jordan
October 2023 — Present

Assistant Dean of Quality Assurance and E-Learning at College of Engineering, Mutah University, Jordan
October 2021 — October 2023

Teaching Assistant at the Civil Engineering Department, The University of Texas at Arlington, USA
August 2016 — August 2017
August 2018 — August 2019

Quality Control and Construction Engineer at Al-Own Advanced for Contracting Company, Jordan
November 2011 — December 2014

- Disi-Mudawarra to Amman water conveyance system Project.

Trainee Civil Engineer at the Ministry of Public Works and Housing, Jordan

June 2011 — August 2011

- Government building directorate, Al-Karak

👤 INSTITUTIONAL SERVICES-MUTAH UNIVERSITY

- Member in the College of Engineering Council.
- Member in the ABET Accreditation Preparatory Committee of the College of Engineering.
- Member in the Curriculum Committee of the CEE Dep.
- Head of the E-learning Committee of the College of Engineering.
- Member in the Tendering Committee of the College of Engineering.
- Member in the Quality Assurance Committee of the CEE Dep.
- Member in the Course Equivalences Committee of the CEE Dep.
- Member in the Postgraduate Studies Committee of the CEE Dep.
- Member in the CEE Department Labs Development Committee.

★ FUNDED PROJECTS

Establishing the Materials and Energy Laboratory (MSEL) at Mutah University

June 2021 — June 2024

- Funder: Mutah University-Deanship of Scientific Research.
- Project value: \$250,000

★ TEACHING PROFILE

- Pavement Design
- Highway Engineering
- Highway Engineering Laboratory
- Surveying for Engineers
- Retaining Earth Structures
- Foundation Engineering
- Numerical Methods
- Engineering Drawing
- Construction Materials and Concrete Properties
- Laboratory of Construction Materials and Concrete Properties

★ HONORS

- Government Scholarship to complete Master and PhD studies (2016-2020).
- Mutah University President's List/ University Shield for Excellence (2009).
- Mutah University Dean's List for excellent students (Four times, 2007-2009)

★ TRAINING COURSES

- **Modern Learning Patterns and Electronic Content Development** - Academic Development & Quality Assurance Center, Mutah University (2023).
- **Study Course Design, Modern Teaching and Learning Methods, Managing and Organizing a University Class, Ethics of University Education, Students Evaluation Strategies, and Course File Preparation** - Academic Development & Quality Assurance Center, Mutah University (2022).

- “How to Qualify for ABET Accreditation Including Virtual Visit Training”- Association of Arab Universities, Jordan (2021).
- **ITA (UTA’s Developmental English Course of International Teaching Assistants)**- The University of Texas at Arlington, USA (2017).
- **GESP (Graduated English Skills Program)**- The University of Texas at Arlington, USA (2016).
- **MUDL (Mutah University Computer Driving License)**- Academic Development & Quality Assurance Center, Mutah University (2014).
- **Confined Space, Construction hazards, Pipeline Construction Management, and “A-Z” Safety Courses** - GAMA Energy Co., Jordan (2012-2013).
- **Primavera P6, Design of Concrete Structures, Project Management, Quantity Surveying, and AutoCAD Courses** – Jordan Engineers Association (2010-2013).
- **Computer Skills:** MATLAB, SPSS statistical software, Mathcad, Python, AutoCAD, SketchUp, Microsoft Office.

★ PUBLISHED RESEARCH

➤ Journal Articles

- Abarkan, I., Rabi, M., Ferreira, F.P.V., Shamass, R., Limbachiya, V., **Jweihan, Y.S.** and Santos, L.F.P., 2024. Machine learning for optimal design of circular hollow section stainless steel stub columns: A comparative analysis with Eurocode 3 predictions. *Engineering Applications of Artificial Intelligence*, 132, p.107952.
- Rabi, M., **Jweihan, Y.S.**, Abarkan, I., Ferreira, F.P.V., Shamass, R., Limbachiya, V., Tsavdaridis, K.D. and Santos, L.F.P., 2024. Machine learning-driven web-post buckling resistance prediction for high-strength steel beams with elliptically-based web openings. *Results in Engineering*, p.101749.
- Momani, Y., Alawadi, R., **Jweihan, Y.S.**, Tarawneh, A.N., Al-Kheetan, M.J. and Aldiabat, A., 2024. Machine learning-based evaluation of punching shear resistance for steel/FRP-RC slabs. *Ain Shams Engineering Journal*, p.102668.
- Al-Kheetan, M.J., **Jweihan, Y.S.**, Rabi, M. and Ghaffar, S.H., 2024. Durability Enhancement of Concrete with Recycled Concrete Aggregate: The Role of Nano-ZnO. *Buildings*, 14(2), p.353.
- Al-Jrajreh, S.S., Al-Hamaiedeh, H., Al-Kheetan, M.J., **Jweihan, Y.S.** and Aljaafreh, T., 2023. Improvement of ornamental stone wastes as sand replacement in concrete using silane coupling agent. *Results in Engineering*, 20, p.101580.
- Al Swalqah, R.A.A., Al-Kheetan, M.J., **Jweihan, Y.S.** and Al-Hamaiedeh, H., 2023. Synergistic Effect of Treated Polypropylene-Based Disposable Face Masks on Durability and Mechanical Properties of Concrete. *Arabian Journal for Science and Engineering*, pp.1-9.
- **Jweihan, Y.S.**, Al-Kheetan, M.J. and Rabi, M., 2023. Empirical Model for the Retained Stability Index of Asphalt Mixtures Using Hybrid Machine Learning Approach. *Applied System Innovation*, 6(5), p.93.

- Bayaidah, R.H., Habashneh, A.O., Al-Ma'aitah, S.H., Alfahajin, M.S., Al-Kheetan, M.J., **Jweihan, Y.S.**, Alrwashdeh, S.S., Al-Hamaiedeh, H., and Ghaffar, S.H. (2023). Utilisation of raw oil shale as fine aggregate to replace natural sand in concrete: Microstructure, surface chemistry and macro properties. *Results in Engineering*, 19, p. 101265.
- **Jweihan, Y. S.** (2023). Predictive model of asphalt mixes' theoretical maximum specific gravity using gene expression programming. *Results in Engineering*, 101242.
- **Jweihan, Y.S.**, Romanoschi, S.A., Al-Kheetan, M.J., Tarawneh, A., Momani, Y., Alrwashdeh, S.S. and Grujicic, M.J., 2023. Improvements to the duplicate shear test (DST) device for measuring the fundamental shear properties of asphalt concrete mixes. *International Journal of Pavement Research and Technology*, 16(5), pp.1255-1266.
- **Jweihan, Y. S.** (2023). Implementation of Ceramic Waste as Fine Aggregate in Rigid Pavement: Performance Enhancement Through Silane Coupling Agent. *Arabian Journal for Science and Engineering*, 1-9.
- **Jweihan, Y. S.** (2023). Performance of aged asphalt mixes containing waste oil shale filler. *International Journal of Pavement Research and Technology*, 1-15.
- Almomani, Y., Tarawneh, A., Alawadi, R., Taqieddin, Z. N., **Jweihan, Y. S.**, & Saleh, E. (2023). Predictive models of behavior and capacity of frp reinforced concrete columns. *Journal of Applied Engineering Science*, 21(1), 143-156.
- Al-Awabdeh, F. W., Al-Kheetan, M. J., **Jweihan, Y. S.**, Al-Hamaiedeh, H., & Ghaffar, S. H. (2022). Comprehensive investigation of recycled waste glass in concrete using silane treatment for performance improvement. *Results in Engineering*, 16, 100790.
- Alrwashdeh, S. S., Ammari, H., **Jweihan, Y. S.**, Abu Qadourah, J., Al-Kheetan, M. J., & Al-Falahat, A. A. M. (2022). Refurbishment of Existing Building toward a Surplus Energy Building in Jordan. *The Open Construction & Building Technology Journal*, 16(1).
- Momani, Y., Alawadi, R., Majdalaweyh, S., Tarawneh, A., & **Jweihan, Y. S.** (2022). Data-driven machine learning prediction models for the tensile capacity of anchors in thin concrete. *Innovative Infrastructure Solutions*, 7(5), 294.
- **Jweihan, Y. S.**, Alawadi, R. J., Momani, Y. S., & Tarawneh, A. N. (2022). Prediction of Marshall Test Results for Dense Glasphalt Mixtures Using Artificial Neural Networks. *Frontiers in Built Environment*, 8, 949167.
- **Jweihan, Y. S.**, Romanoschi, S. A., Grujicic, M. J., Talebsafa, M., Popescu, C., Coca, A. M., & Al-Kheetan, M. J. (2022). Development of shear tester with normal stress (STNS) for asphalt concrete mixes. *International Journal of Pavement Research and Technology*, 1-13.
- Al-Kheetan, M. J., Al-Tarawneh, M. A., Ghaffar, S. H., Chougan, M., **Jweihan, Y. S.**, & Rahman, M. M. (2021). Resistance of hydrophobic concrete with different moisture contents to advanced freeze–thaw cycles. *Structural Concrete*, 22, E1050-E1061.

- Al-Kheetan, M. J., Rahman, M. M., Ghaffar, S. H., & Jweihan, Y. S. (2020). Comprehensive investigation of the long-term performance of internally integrated concrete pavement with sodium acetate. *Results in Engineering*, 6, 100110.

➤ **Conference**

- Talebsafa, M., Romanoschi, S.A. and Jweihan, Y.S., 2024. *Optimization of Continuously Reinforced Concrete Pavement to Truck Platoon Loading* (No. TRBAM-24-01426).

➤ **MSc. Thesis & Ph.D. Dissertation**

- Jweihan, Y. S. (2019). *Enhancements of Shear Tests for Asphalt Concrete*. The University of Texas at Arlington.
- Jweihan, Y. S. (2018). *Improvements to the duplicate shear tester*. The University of Texas at Arlington.

REFERENCES

Prof. Stefan Ramonoschi, PE., Civil Engineering Department, The University of Texas at Arlington, USA.

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