

SAMER BARAKT, PhD
Professor of Civil Engineering
Department of Civil and Environmental Engineering
University of Sharjah



EDUCATION

Degree	Specialization	University / Country	Grad. Date
PhD	Civil Engineering	University of Colorado at Boulder, USA	06/1994
MSc	Structural Engineering	Jordan University of Science and Technology, Jordan	06/1989
BSc	Civil Engineering	Yarmouk University, Jordan	6/1984

ACADEMIC APPOINTMENTS

From	To	Title/Rank/Function	With Whom/Where
01/2011	Present	Professor of Civil Eng.	University of Sharjah, UAE
03/2007	09/2007		Jordan University of Science and Technology, Jordan
09/2007	01/2011	Associate Professor of Civil Eng.	University of Sharjah, UAE
08/1999	03/2007		Jordan University of Science and Technology, Jordan
9/2002	12/2010	Assistant Professor of Civil Eng.	University of Sharjah, UAE
05/1994	08/1999		Jordan University of Science and Technology, Jordan
01/1994	05/1994	Lecturer in Civil Engineering	Jordan University of Science and Technology, Jordan
09/2006	09/2007	Chairman of Civil Engineering Dept.	Jordan University of Science and Technology, Jordan
01/2006	09/2006	Assistant to Dean of Engineering	University of Sharjah, UAE

SELECTED ADMINISTRATION APPOINTMENTS (Academic/Research)

From	To	Title/Rank/Function	With Whom/Where
2019	Present	Coordinator , PhD Program, Department of Civil and Env. Engineering	University of Sharjah, UAE
2015	2021	Member , Sustainable Construction Materials and Structural Systems Research Group	University of Sharjah, UAE
09/2006	09/2007	Department Chair , Department of Civil and Env. Engineering	Jordan University of Science and Technology, Jordan
01/2006	09/2006	Assistant to Dean of Engineering	University of Sharjah, UAE

PROFESSIONAL APPOINTMENTS

From	To	Title/Rank/Function	With Whom/Where
1989	1991	Civil Engineer	Ministry of Education, Local Company, Jordan
1986	1988	Civil Engineer	Jordan Army, Jordan

PROFESSIONAL LICENSURE/DESIGN EXPERIENCE

Registration/Title	Organization/Country	When
Licensed Engineer	Jordan Engineers Association, Jordan	Since 1984

SELECTED SERVICE TO THE PROFESSION

When	Professional Service/Event/Activity	Role
Ongoing	Active Reviewer for Top International Journals	Reviewer
2024	Member of the Scientific Committee of CESARE'24, https://www.ct.upt.ro/cesare24/ The 4 th International Conference on the COORDINATING ENGINEERING FOR SUSTAINABILITY AND RESILIENCE Timisoara, Romania, 29-31 May 2024	Member of Technical Committee
2022	Member of the Scientific Committee of CESARE'22, Jordan, Amman	Member of Technical Committee
2021	Member of the Scientific Committee of CESARE'21, Shanghai, China	Member of Technical Committee

SELECTED FUNDED PROJECTS

Project Title	Granting Organization	Project Leader	Dates
Characterization of flexural and post-cracking residual strength of fiber-reinforced concrete and correlation between different testing standards protocols	Research Institute for sciences and Engineering, University of Sharjah	Samer Barakat	2022-Present
Experimental Study on Shear Strength of Steel Beams with Sinusoidally Corrugated Webs	Research Institute for sciences and Engineering, University of Sharjah	Samer Barakat	2023-Present
Investigating the Punching Shear Behavior of Fiber Reinforced Polymer (FRP) Flat Slabs Incorporating Macro-Synthetic Fibers	Research Institute for sciences and Engineering, University of Sharjah	Mohamed Maalej	2023-Present
Flexural and Shear Response of Geopolymers Concrete Beams Reinforced with BFRP bars and strengthened using CFRP sheet	Research Institute for sciences and Engineering, University of Sharjah	Muhammad Talha Junaid	2022-Present

SELECTED PUBLICATIONS DURING PAST 5 YEARS

Type	Details
Journal	Alateyat, A., Awad, R., Ibrahim, B., Junaid, M. T., Altoubat, S., Maalej, M., & Barakat, S. (2024). Punching shear strength of fiber-reinforced polymer concrete slabs: Database-driven assessment of parameters and prediction models. <i>Engineering Structures</i> , 315, 118511.
Journal	Leblouba, M., Barakat, S. , Awad, R., Al-Khaled, S. U., Metawa, A., & Karzad, A. S. (2024). Buckling behavior of bundled inclined columns: Experimental study and design code verification. <i>Steel and Composite Structures</i> , 52(2), 183.
Journal	Shrif, M., Barakat, S. , Al-Sadoon, Z., Mostafa, O., & Awad, R. (2024). Optimized Neural Network-Based Model to Predict the Shear Strength of Trapezoidal-Corrugated Steel Webs. <i>Heliyon</i> .
Journal	Barakat, S.A. , Arab, M.G., Awad, R.A., Malkawi, D.A.H., Metawa, A. and Omar, M., Probabilistic seismic hazard assessment for the United Arab Emirates using integrated seismic source model. <i>Journal of Asian Earth Sciences</i> : X, 11, 100173, 2024.
Journal	Nassif, N., Junaid, M.T., Altoubat, S., Maalej, M. and Barakat, S. , Data-Driven Prediction of The Bond Coefficient Between Fiber-Reinforced Polymer (FRP) Bars and Concrete. <i>Special Publication</i> , 360, 2024.
Journal	Awad, R., Al Ateyat, A., Junaid, M.T., Al-Sadoon, Z., Altoubat, S., Maalej, M. and Barakat, S. , Punching shear capacity of fiber-reinforced concrete suspended slabs: Database analysis and models assessments. <i>Journal of Building Engineering</i> , 83, 2024.
Journal	Tarabin, M., Leblouba, M., Barakat, S. and Zahri, M., Experimental and probabilistic analysis of the crack propagation in fiber reinforced concrete. <i>Engineering Failure Analysis</i> , 151, 2024.
Journal	Ahmat, K., Barakat, S. , Altoubat, S. and Alhalabi, M., Probabilistic assessment of ACI 318 minimum thickness requirements for two-way slabs. <i>Australian Journal of Structural Engineering</i> , 24(2), 2023.
Journal	Al-Sadoon, Z.A., Barakat, S. , Abed, F. and Al Ateyat, A., Stability of structural steel tubular props: An experimental, analytical, and theoretical investigation. <i>Steel and Composite Structures</i> , 49(2), 2023.
Journal	Alotaibi, E., Nassif, N. and Barakat, S. , Data-driven reliability and cost-based design optimization of steel fiber reinforced concrete suspended slabs. <i>Structural Concrete</i> , 24(2), 1856-1867, 2023.
Journal	Altoubat, S., Maalej, M., Nassif, N. and Barakat, S. , Punching shear behavior of RC slabs incorporating macro-synthetic fibers. <i>Journal of Building Engineering</i> , 67, 105983, 2023.
Journal	Junaid, M.T., Alhalabi, M., Mostafa, O. and Barakat, S. , December. Flexural Characterization of Concrete Beams Reinforced with 3D-Printed Formworks. In <i>Materials Science Forum</i> , 1108, 2023.
Journal	Karzad, A.S., Khalil, M.A., Mohamed, A.M. and Barakat, S. , Modeling the shear capacity of externally bonded fiber reinforced polymer strengthened beams by artificial neural network. <i>International Journal of Applied Science and Engineering</i> , 20(1), p.1-14, 2023.
Journal	Barakat, S.A. and AlHamaydeh, M.H., Preliminary Design of Seismic Isolation Systems Using Artificial Neural Networks. <i>International Journal of Neural Networks and Advanced Applications</i> , 9, p.12-17, 2022.
Journal	Awad, R., Barakat, S. , Leblouba, M., Altoubat, S. and Maalej, M., Reliability-based design of fiber reinforced concrete slabs-on-ground in flexure as per ACI 360. In <i>Structures</i> , 39, 2022, p. 207-217.
Journal	Leblouba, M., Barakat, S. , Altoubat, S., Maalej, M. and Awad, R., Resistance factors for reliability-based design of fiber reinforced concrete suspended slabs in flexure. <i>Journal of Building Engineering</i> , 57, 2022.
Journal	Junaid, M.T., Shweiki, A., Barakat, S. , Alhalabi, M. and Mostafa, O., November. Flexural characterization and ductility assessment of small-scale mortar beams reinforced with 3D-printed polymers. In <i>Structures</i> , 45, p. 1751-1761, 2022.
Journal	Barakat, S. , Alhalabi, M., Mostafa, O. and Fattouh, I.H., Size Optimization of Truss Structures Using Calibrated Shuffled Complex Evolution Algorithm. <i>Jordan Journal of Civil Engineering</i> , 16(4), 2022.
Journal	Leblouba, M., Taklas, M. and Barakat, S. , Concrete-concrete shear friction behavior under cyclic loading: Laboratory test, mathematical modeling, and code provisions. In <i>Structures</i> , 45, 2022.

Journal	Leblouba, M., Karzad, A.S., Tabsh, S. and Barakat, S. , Plated versus Corrugated Web Steel Girders in Shear: Behavior, Parametric Analysis, and Reliability-Based Design Optimization. <i>Buildings</i> , 12(12), 2022.
Journal	Leblouba, M., Altoubat, S., Karzad, A.S., Maalej, M., Barakat, S. and Metawa, A., Impact response and endurance of unreinforced masonry walls strengthened with cement-based composites. In <i>Structures</i> , 36, p. 262-279, 2022.
Journal	Taklas, M., Leblouba, M., Barakat, S. , Fageeri, A. and Mohamad, F., Concrete-to-concrete shear friction behavior under cyclic loading: experimental investigation. <i>Scientific Reports</i> , 12(1), p.9451, 2022.
Journal	E Alotaibi, N Nassif, M Alhalabi, H Al Sebai, S Barakat , Numerical investigation on redundancy of bridges with AASHTO I-girders. <i>Bridge Structures</i> , 17,1-2, 2021.
Journal	Alrouh, N., Maalej, M. and Barakat, S. , November. Modeling the Shear Strength of FRP-Strengthened RC Beams Using Artificial Neural Networks. In <i>Materials Science Forum</i> , 1047, p. 207-213, 2021.
Conf. Proc	Rouba Alzoubi, Samer Barakat , Muhammed Talha Junaid, DATA DRIVEN ASSESSMENT OF SHEAR STRENGTH OF SINUSOIDAL CORRUGATED STEEL WEBS. Proceedings of International Structural Engineering and Construction, 11(2), 2024. Developing Materials and Structures for Sustainable Engineering Copyright © 2024 ISEC Press, ISSN: 2644-108X, www.doi.org/10.14455/ISEC.2024.11(2).STR-29

HONORS/AWARDS/SCHOLARSHIPS/SPECIAL RECOGNITION

Date	Recognition	Organization
2011	Award for Teaching Excellence	University of Sharjah
2010, 2015	Award of Research Excellence	University of Sharjah
1980-1984	BSc Scholarship at Yarmouk University (Jordan)	Jordan Government
1991-1994	PhD Scholarship at University of Colorado, Boulder, USA	Jordan University of Science and Technology, Jordan