

Maher T. Omar

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ACADEMIC QUALIFICATIONS

University Degree	Duration of study		Specialization	Date of Graduation	University/Country
	From	To			
Ph.D. Engineering Science	1992	1995	Geotechnical Engineering	June 1995	Southern Illinois University, USA
M.S. Civil Engineering	1990	1992	Geotechnical Engineering	July 1992	Southern Illinois University, USA
B.S. Civil Engineering	1986	1990	Civil	May 1990	Southern Illinois University, USA

ACADEMIC EXPERIENCE

Academic Rank/Position	Date of Obtaining Rank/Position			Name of University Granting Rank	Location/Country	Number of Years Holding the rank	
	Day	Month	Year			From	To
Director, Institute of Leadership in Higher Education	02	09	2018	University of Sharjah	Sharjah, UAE	2018	Present
Professor	04	06	2018	University of Sharjah	Sharjah, UAE	2018	Present
Chairman	01	09	2016	University of Sharjah	Sharjah, UAE	Sep. 2016	Sep. 2017
A/Chairman	01	01	2016	University of Sharjah	Sharjah, UAE	Jan 2016	Sep. 2016
Chairman	01	09	2010	University of Sharjah	Sharjah, UAE	2010	2014
Associate Professor	01	09	2007	University of Sharjah	Sharjah, UAE	2007	June 2018
Assistant Professor	01	09	2000	University of Sharjah	Sharjah, UAE	2000	2007
Visiting Assistant Professor	01	06	1997	Southern Illinois University	Carbondale, IL USA	1997	2000
Instructor	01	01	1996	Southern Illinois University	Carbondale, IL USA	1996	1997

PROFESSIONAL AWARDS

- Recipient, University of Sharjah Annual Incentive Award for Distinguished Faculty Members - Teaching Category, 2017-2018
- Recipient, University of Sharjah Annual Incentive Award for Distinguished Faculty Members - University and Community Service Category, 2014-2015

- Recipient, University of Sharjah Annual Incentive Award for Distinguished Faculty Members - Teaching Category, 2013-2014
- Recipient, University of Sharjah Annual Incentive Award for Distinguished Faculty Members - Teaching Category, 2010-2011
- Recipient, University of Sharjah Annual Incentive Award for Distinguished Faculty Members - Teaching Category, 2007-2008
- Recipient, University of Sharjah Outstanding Teaching Award for Faculty, 2006-2007
- Recipient, University of Sharjah Outstanding Research Award sponsored by Bank of Sharjah for “Reliability based risk index for the design of reinforced earth structures”.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Member, Tau Beta Pi, National Engineering Honor Society
- Member, Phi Kappa Phi, National Honor Society

COURSES TAUGHT/DEVELOPED/COORDINATED

#	Course Name	Graduate/ Undergraduate	Organization
1	Introduction To Engineering	Undergraduate	University of Sharjah
2	Geotechnical Engineering 1	Undergraduate	University of Sharjah
3	Geotechnical Engineering 2	Undergraduate	University of Sharjah
4	Geotechnical Engineering 2 Lab	Undergraduate	University of Sharjah
5	Foundation Engineering	Undergraduate	University of Sharjah
6	Foundation Engineering 2	Undergraduate	University of Sharjah
7	Senior Design Project - I	Undergraduate	University of Sharjah
8	Senior Design Project - II	Undergraduate	University of Sharjah
9	Individual Project	Undergraduate	University of Sharjah
10	Statics	Undergraduate	University of Sharjah
11	Mechanics Of Materials	Undergraduate	University of Sharjah
12	Structural Analysis 1	Undergraduate	University of Sharjah
13	Environmental Geotechnology	MSc	University of Sharjah
14	Soil Improvement	MSc	University of Sharjah
15	Soil Dynamics	MSc	University of Sharjah
16	Advanced Soil Mechanics	MSc	University of Sharjah
17	Rock Mechanics	MSc	University of Sharjah
18	Intro. to Geo-environmental Eng.	Enviro. Minor	University of Sharjah
19	Environmental Friends & Volunteers	Undergraduate	University of Sharjah
20	Geotechnical Earthquake Engineering	PhD	University of Sharjah
21	Theoretical & Computational Soil Mechanics	PhD	University of Sharjah
22	Unsaturated Soil Mechanics	PhD	University of Sharjah
23	Advanced Geotechnical Engineering Laboratory	PhD	University of Sharjah
24	Advanced Foundation Engineering	PhD	University of Sharjah
25	Engineering Mechanics (Statics)	Undergraduate	Southern Illinois University
26	Structural Analysis	Undergraduate	Southern Illinois University

27	Structural Steel Design	Undergraduate	Southern Illinois University
28	Reinforced Concrete Design	Undergraduate	Southern Illinois University
29	Mech. of Deformable Bodies	Undergraduate	Southern Illinois University
30	Mech. of Deformable Bodies Lab	Undergraduate	Southern Illinois University
31	Senior Design Project - I	Undergraduate	Southern Illinois University
32	Senior Design Project - II	Undergraduate	Southern Illinois University

PUBLISHING CASE STUDIES ON ENGINEERING EDUCATION

I have been publishing case studies comparing and contrasting the effectiveness of teaching methods and techniques. They appeared locally & internationally. Titles are:

- Student Early Warning Indicator at University of Sharjah (SEWI)- Proposed System
- Efforts to Maximize The Success of Students on Probation
- Senior Design Project Experience at Department of Civil & Environmental Engineering at University of Sharjah, United Arab Emirates
- Sustainable Public Transportation Potential at Sharjah University City
- Interdisciplinary Project-based Collaboration - An Effective Approach for Integrating Sustainable Development into Design-based Courses
- Thoughts Prior To Introducing Earthquake Engineering To the Civil Engineering Curriculum: Internal & External Efforts.
- Developing New Technology-Related Bachelor Programs in The Middle East Sustainability and the Changing Culture of Civil Engineering Education: a Case Study from the University of Sharjah
- Transportation Engineering Education in Undergraduate Civil Engineering Curricula in The Middle East
- Accreditation and Program Assessment
- Thoughts on University Industry Relations
- Shaping Engineering Education in the Region – A Report on Four Engineering Education conferences Held at the University of Sharjah
- Another Dimension of Student Engagement - Student Satisfaction Survey
- From course Learning Outcomes to Program Objectives-Based Assessment
- Students Recruitment and Retention-areas for improvement
- Perceptions on Effective Engineering Education
- Strengthening the Collaboration between University and Industry
- Linking Teaching, Research and Community Service
- Engineering Faculty in the 21st Century: Extending the Lecture
- Developing Generic Skills Starting Year One-Introduction to Engineering

ADVANCING TEACHING & LEARNING

- Chair of Organizing & Scientific Committees, 2nd Teaching and Learning Forum “Integrating Technology into Teaching and Learning”, February 26th, 2019, Sharjah, United Arab Emirates.
- Chair of Organizing Committee, Leadership in Higher Education in the Middle East Conference, November 2019, Sharjah, United Arab Emirates.
- Chair of Organizing & Scientific Committees, 8th International Forum on Engineering Education (IFEE2017) “Advances in Engineering Education” Jointly with 4th International Conference towards Sustainable Development (ICTSD2017) “Educating Engineers for Sustainability, UOS
- Co-Chair of Scientific & member of Organizing Committees, International Conference on Advances in Sustainable Construction Materials & Civil Engineering Systems (ASCMCES-17), UOS
- Chair of Organizing Committee & Member of Preparation Committee, involved in all aspects of the 10th, 11th, 12th, and 13th Annual Research Forums

- Organized with a colleague through the Department & RISE a workshop on February 1, 2018 focusing on fundamental principles that underlie current and anticipated developments in geotechnical engineering (Bio-mediated & Bio-inspired Geotechnics)
- Organized with colleagues through the Department & RISE a workshop on Fiber Reinforced Concrete, materials, applications and design aspects in Collaboration with the University of Brescia in Italy, 2018
- Organizing Committee, 14th International Conference on Construction Applications of Virtual Reality in Construction (CONVR 2014), UOS, 2014
- Chair of Organizing & Scientific Committees, 7th International Forum on Engineering Education (IFEE2015) "Quality Assurance in Engineering Education" Jointly with 3rd Towards Sustainable Development (3rd TSD2015) Conference "Sustainable Development in Engineering Education, Research and Practice"
- Proceedings of the Advances in Sustainable Construction Materials & Civil Engineering Systems, 18-20 April 2017, University of Sharjah, UAE
- Proceedings of the 8th International Forum on Engineering Education, University of Sharjah, 2018
- Co-authored an edited book on Engineering Education: "Quality Assurance in Engineering Education". Publisher: University of Sharjah (350 pages), ISBN: 978-9948-10-122-0
- Co-authored an edited book on Engineering Education: Engineering Education in the 21st Century - Quality, Globalization and Local Relevance, ISBN: 9948-10-098-0
- Organizing Committee, 5th International Arab Conference on Quality Assurance in Higher Education
- Co-Chair of Judging Committee, "Think Science Competition", (2014, 2015, 2016, 2017, 2018, and 2019), Emirates Foundation for Youth Development.
- Jointly with other colleagues conducted two workshops in different locations in Sharjah and Abu Dhabi. The number of beneficiaries was over 1000 from high school students and teachers, the following are the deliverables (2014, 2015, 2016, 2017, and 2018):
 1. Interactive Session 1: How to make and present your project
 2. Interactive Session 2: Judging criteria
- Conducted two workshops as part of the 5th International Arab Conference on Quality Assurance in Higher Education (IACQA 2015), the deliverables are Student Learning Outcomes and Assessment & Program Self Study
- Chair of Judging Committee, 4th Intel Science Competition- Arab World, October, 2013.
- Workshop Facilitator, "National Qualification Framework Emirates and Program and Course Outcomes and assessment", Sunday March 3rd, 2013.
- Chair of Judging Committee, Intel Science Competition- Arab World, December 2012.
- Chair of Organizing Committee, Intel Science Competition- Arab World, University of Sharjah, November 27th-30th, 2011.
- Chair of Organizing Committee, 5th IFEE Conference, 2010, "Engineering Education in the 21st Century: Quality, Globalization and Local Relevance".
- Organizing Committee, 4th IFEE Conference, 2006, "Eng Education – Integrating Teaching and Research with Community Service".
- Organizing Committee, 3rd IFEE Conference, 2003 "Engineering Education & Building Partnership with Government, Industry & Society"
- Organizing Committee, 2nd IFEE Conference, 2002, "Generic Attributes in Engineering Education-Issues and Development".
- Organizing Committee, 1st IFEE Conference, 2001 "The Changing Role of Engineering Education in the Information Age-Innovation and Tradition"
- Chair of Organizing Committee, "International Conference on Geotechnical Engineering 2004", 3-6 October 2004, Sharjah, UAE.

RECENT COMMITTEE (UNIVERSITY & COMMUNITY) MEMBERSHIP

- Member, University COVID-19 Interim Strategy
- Member, University Strategic Champions Committee of Teaching and learning in the UoS Strategic plan 2019/2023.
- Chair, Central Committee for Investigating Cheating Cases in Online Exams
- Member, UoS - Huawei Partnership Committee

- Member, University Committee to revise the VCAA related policies and procedures
- Member, University committee to plan the adoption of innovative teaching and learning approaches
- Chair, University Central Learning Environment Committee
- Chair, Executive Board Committee for the Institute of Leadership in Higher Education (ILHE)
- Chair, University Learning Environment Committee
- Member, University Central Committee for Integration of Research in Teaching and Learning
- Member, University Graduate Studies Council
- Permanent Member, University General Education Program (University Requirements) Committee
- Member, University Strategic Champions Committee of Teaching and learning in the UoS Strategic plan 2019/2023.
- Member, College team to review the proposal for Doctor of Philosophy in Engineering Science
- Chair, College Teaching Load Reduction Committee to recommend short-and long-term actions and strategies to reduce the teaching load of faculty in the College of Engineering
- Member, University Central Study Plans and Curricula Committee
- Member, University Innovation and Development in Teaching Committee
- Member, University Preparation Committee of 2017 UI Green Metric World University Rankings on Sustainability
- Chair, Department ABET Steering Committee and member of the ABET Accreditation Committee
- Member, PhD Program Development & Response Committees
- External Examiner, academic collaboration between the Civil Engineering Department at University of Sharjah and Arrowad Colleges in Saudi Arabia
- Member, College special committee to study the AE proposed ABET-related curriculum changes. The committee carefully reviewed and revised the program and provided options to help meet ABET Criteria. The recommended changes were approved by the university curriculum committee.
- Elected faculty, University Academic Advisory Council (UAAC). The objective of the UAAC is to promote and encourage the active participation of faculty members and students, together with the University Administration, in matters related to academic strategic directions, institutional effectiveness, and academic services and activities in support of teaching and research. The UAAC shall also review all proposals submitted by the colleges and provide consultations and recommendations to the Deans Council with respect to adopting such proposals.
- Chair, Department ABET Steering Committee
- Member, Department new PhD Program Development Committee
- Member, University SACS accreditation Preparation Committee
- Board Member, Innovations in Construction, Asphalt & Transportation (ICAT) Conference
- Member, Advisory board for the Center of Entrepreneurship, University of Sharjah
- Member, UOS Institutional Effectiveness and Academic Accreditation Committee
- Co-Chair of Judging Committee, Think Science Competition, organized by the Emirates Foundation for Youth Development
- Chair of Judging Committee, Intel Science Competition- Arab World, University of Sharjah
- Scientific Committee, 6th International Forum on Engineering Education, Kuala Lumpur, Malaysia
- Chair of Organizing Committee, Intel Science Competition- Arab World
- Member, Department ABET Accreditation and Assessment Committee
- Member, UOS committee for enrolment management
- Member, University Questionnaires Committee
- Member, College Faculty Selection/Contract Renewal Committee
- Chair of Organizing Committee, 1st to 13th UoS Annual Scientific Research Forum
- Part of a university committee formed by the Chancellor charged to prepare a plan and put it in action to promote all University programs in cooperation with the colleges and various departments
- Member, University of Sharjah Strategic Planning committee

- Member, University of Sharjah Graduate Studies Council
- Part of a university committee formed by the Chancellor, charged to "Design & Generate PowerPoint Course Notes" for the new university elective "Advising & Guidance".
- Member, University of Sharjah student discipline committee
- University Representative, Emirates of Sharjah committee for environmental education & awareness
- Organizing Committee, Engineering Solutions & Risk Management-Selected Topics, Workshop
- Organizing Committee, Accreditation, Assessment & Future Outlook for Civil & Environmental Engineering Education workshop
- Scientific Committee, 2nd, 3rd and 4th Student Conference at University of Sharjah
- Chair of Local Organizing Committee, International Forum on Islamic Architecture and Design
- Organizing Committee, Introduction to Seismic Hazard Assessment & Earthquake Impacts in the UAE – Workshop
- Member, Sharjah new Seismic Monitoring Station to be used to provide community service, including education, research and professional services.
- Chair, College Student Recruitment and Welfare Committee (Adhoc)
- Member, College Faculty & Staff Grievance Committee
- Member, College Organizing Committee-Engineering Forums
- Chair, Department Undergraduate Committee
- Member, College Undergraduate Education Committee
- Chair, Organizing Committee, " International Conference on Geotechnical Engineering"
- Member, Department Research & Graduate Committee
- Member, Department Pac Committee
- Coordinator, Department Student / Staff Liaison Activity
- Member, University of Sharjah Student Election Committee
- Member, BP Student Awards Committee
- Member, Hazards and Engineering Risk Management Project Team
- Member, Technical Sub-Committee for Waste Management in Sharjah
- Member, Technical Committee for Monitoring of water quality and circulation patterns in the Khalid and Al-Khan lagoons

INTER-DISCIPLINARY RESEARCH PROJECTS

No	Title of research project	Participants/ Year	Source of Funding/support
1	Numerical Analysis of Shallow Foundations on Geogrid Reinforced Soil	2016-2017	University of Sharjah
2	Macro and Micro Geo-Spatial Environment Consideration for Landfill Site Selection in Sharjah, United Arab Emirates	2016-2017	University of Sharjah
3	Investigation and Modeling of Asphalt Pavement Performance in Cold Regions	2016-2017	University of Sharjah
4	Development of Microzonation Map of Liquefaction Potential for Sharjah, United Arab Emirates"	2014-2017	University of Sharjah
5	Estimation of Bearing Capacity of Open-Ended Model Piles in Sand	Collaboration Work 2015-2017	University of Sharjah & University of Technology, Baghdad
6	Predicting Allowable Bearing Capacity and Settlements of shallow foundations using artificial neural networks - Sharjah, United Arab Emirates	2015-2017	University of Sharjah

No	Title of research project	Participants/ Year	Source of Funding/support
7	Geotechnical Mapping of seismic risk of Sharjah City, United Arab Emirates	2015-2017	University of Sharjah
8	Change in Suction and Swelling Behavior of Expansive Unsaturated Bentonite-Sand Mixture with Time	Collaboration Work 2015-2017	University of Sharjah & University of Technology, Baghdad
9	Empirical Correlations for Predicting Allowable Bearing Capacity and Elastic Settlement of Shallow Foundation on Granular Soil	2015-2017	University of Sharjah
10	Bearing Capacity of a Footing on an Expansive Unsaturated Bentonite-Sand Mixture	Collaboration Work 2015-2017	University of Sharjah & University of Technology, Baghdad
11	Subsurface characterization of granular soils from dynamic cone penetration test results, United Arab Emirates	2015-2017	University of Sharjah
12	Field plate load test to investigate stress distribution in soil mass with and without reinforcement - United Arab Emirates	2015-2017	University of Sharjah
13	Estimating Rock Strength Parameters From Empirical Correlations - United Arab Emirates	2015-2016	University of Sharjah
14	Potential impact of global warming on whiting in a Semi-Enclosed Gulf	2015-2016	University of Sharjah
15	Member, Sustainable Civil Infrastructure systems	2015-2016	University of Sharjah
16	Member, Sustainable Construction Materials and Structural Systems	2015-2016	University of Sharjah
17	Using Alkali-Activated Binders to Improve UAE Sabkha Soils	Competitive Research Grant 2018-2020 AED 79,000	University of Sharjah
18	Using Microbial inspired techniques to improve the geotechnical properties of sand dunes in UAE	Targeted Research Grant 2018	University of Sharjah
19	Using Enzyme Induced Calcite Precipitation (EICP) to control dust in UAE	Collaborative Research Grant 240,000 AED 2018 - 2020	University of Sharjah & Sharjah Research Academy
20	Influence of Particle Morphology on Strength Properties of UAE Carbonate Sands	Competitive Research Grant 2017-2020 AED 93,400	University of Sharjah
21	Development of Weather, Soil, Traffic Database For the Implementation of Mechanistic-Empirical Pavement Design in Sharjah	Seed Research Grant (invited) 2015-2017 AED 40,000	University of Sharjah
22	Evaluation of the Roads and Parking Design to Improve Traffic Safety and Operation in the University City of Sharjah	Seed Research Grant (invited) 2015-2017 AED 40,000	University of Sharjah

No	Title of research project	Participants/ Year		Source of Funding/support
23	Quality Assurance in Engineering Education and Programs Linkages between University of Sharjah, UAE and Royal Institute of Technology, Sweden	2015 - 2017		University of Sharjah, UAE and Royal Institute of Technology, Sweden
24	Advanced Characterization of Dynamic Soil Properties in UAE for Enhanced Civil Infrastructures Design	Targeted Research Grant AED 196,000 2020-2022		University of Sharjah
25	Management of Load Transfer to Underground Structures by Using Geocell Soil Reinforcement	Competitive Research Grant 2017-2021 AED 99,400		University of Sharjah
26	Estimation of Earthquake Hazard in Sharjah	Targeted Research Grant 2017-2021 AED 199,600		University of Sharjah
27	Joint Project with Ajman Government titled “ Super pave Research and Development Project”	2015		University of Sharjah
28	Development of Geospatial Risk Analysis Maps for United Arab Emirates	3 members	2013-2015	University of Sharjah
29	Estimating Unconfined Compressive Strength of Sedimentary Rocks of UAE from Generated Empirical Correlations	3 members	2013-2014	University of Sharjah
30	Use of Wave Velocity for Determining soil Properties	2 members	2013-2014	University of Sharjah
31	Education grant in the amount of AED 560,000, to support the Intel Science Competition for the Arab World (ISC AW) program	1 member	2011	Intel Foundation
32	Assessment of Thiopave (Sulphur Based Additive) in Pavements (Initial Agreement Reached – In Process of Finalization)	3 members	2009/2010	Shell Oil Company
33	Sea water intrusion and the effects on groundwater quality and desalination processes considering the effects of climate change and sea level rise	4 members	2009-2011	British Council
34	Member of the University Research Group “Hazards & Engineering Risk Management”	6 members	2006-2009	University of Sharjah
35	Impacts of Soil Contaminants and Contaminants Management on Soils + Physico-Chemical Factors affecting Soils	3 members	Ongoing	University of Sharjah
36	Collaboration and Capacity Building in Seismology – Methodology for Assessing Earthquakes Impact on Health, Environment, and Infrastructures in UAE.	3 members	2004-2008	University of Sharjah

No	Title of research project	Participants/ Year		Source of Funding/support
37	Water Quality Monitoring in Khalid and Khan lagoons	4 members	2001-2007	University of Sharjah + Environment & Protected Areas Authority
38	Earthquake Hazard Zoning and Assessment in the UAE–Structural, Geotechnical and Environmental Risk	4 members	2004-2007	University of Sharjah + Jordan University for Science and Technology
39	Member of the University Research Group "Intelligent Systems and Infrastructure"	17 members	2004-2006	University of Sharjah
40	Member of the University Research Group "Energy and Environment Research Group"	5 members	2004-2006	University of Sharjah
41	Comprehensive waste Management System for Sharjah	4 members	2000-2003	Municipality of Sharjah + Environment & Protected Areas Authority + University of Sharjah
42	Investigation of the Sharjah Old & New Waste Disposal Sites	4 members	2000-2002	Municipality of Sharjah + Environment & Protected Areas Authority + University of Sharjah
43	Base-Line Assessment of Water Quality & Circulation Patterns in Khalid and Khan lagoons	4 members	2000/2001	University of Sharjah + Environment & Protected Areas Authority
44	"The Effects of Foundation Width and Fiber Stiffness on Model Tests for the Bearing Capacity of Sand with Geogrid Reinforcement".	2 members	2005-2007	University of Sharjah Research center
45	Laboratory tests to study the effect of oil spills on the physical and mechanical properties of soils	2 members	2001-2002	University of Sharjah
46	Risk Assessment for Managing the Transport of Hazardous Material and Freight	2 members	2004-2005	University of Sharjah

MEMBERSHIP IN JOURNALS BOARD OR PAPERS EVALUATION - Recent

No	Journal	Title
1	Geotechnical and Geological Engineering Journal	Reviewer
2	Frontiers in Education Conference (FIE 2005 & 2006)	Reviewer
3	University of Sharjah Journal of Pure & Applied Sciences	Reviewer
4	International Journal of Geotechnical Engineering	Reviewer
5	Innovation in Construction, Asphalt, and Transportation, ICAT	Board Member
6	Geotechnical Testing Journal	Reviewer
7	Land Contamination & Reclamation	Reviewer
8	Arabian Journal of Geosciences	Reviewer
9	20 Thesis Examination Committee	External Examiner

PATENT

Invention (one-year patent): Help overcome the smoking habit. This invention addresses the addictive nature of smoking and the need for smokers to have the social accouterment of actually holding a cigarette in their hand and smoking it. The invention provides an apparatus that allows the user gradually increase the time between cigarettes with the aim to eliminate cigarettes all together.

LIST OF PUBLICATIONS

BOOK CHAPTERS
1. Arab M., Omar M. , Aljassmi R., Nasef R., Nassar L., Miro S. (2020) EICP Cemented Sand Modified with Biopolymer. In: Rodrigues H., Morcoux G., Shehata M. (eds) Recent Research in Sustainable Structures. GeoMEast 2019. Sustainable Civil Infrastructures. Springer, Cham
2. Refaei, Mohamed, Mohamed G. Arab, and Maher Omar . "Sandy Soil Improvement through Biopolymer Assisted EICP." In Geo-Congress 2020: Foundations, Soil Improvement, and Erosion, pp. 612-619. Reston, VA: American Society of Civil Engineers, 2020.
3. Omar M. et al. (2019) Geotechnical Mapping of Seismic Risk for Sharjah City, United Arab Emirates. In: Pradhan B. (eds) GCEC 2017. GCEC 2017. Lecture Notes in Civil Engineering, vol 9. Springer, Singapore, https://doi.org/10.1007/978-981-10-8016-6_83
4. Omar M. (2019) Comparative Study between Mathematical Models for Prediction of Strength Properties of Rocks in United Arab Emirates. In: Fatahi B., Mwanza A., Chang D. (eds) Sustainable Design and Construction for Geomaterials and Geostructures. GeoChina 2018. Sustainable Civil Infrastructures. Springer, Cham. https://doi.org/10.1007/978-3-319-95753-1_5
5. M. Omar , K. Hamad, A. Shanableh, and A. Tahmaz. (2018) Efforts to Maximize the Success of Students on Probation. In: A. Shanableh, K. Hamad, M. Omar, and M. Bettayeb (Eds) Advances in Engineering Education, pp. 53-59, ISBN 978-9948-24-127-0, University of Sharjah
6. K. Hamad, G. Al-Khateeb, and M. Omar . Senior Design Project Experience at Department of Civil & Environmental Engineering at University of Sharjah, United Arab Emirates. In: A. Shanableh, K. Hamad, M. Omar, and M. Bettayeb (Eds) Advances in Engineering Education, pp. 224-234, ISBN 978-9948-24-1270, University of Sharjah, 2018
7. Mohamed Arab, Maher Omar and Ali Tahmaz, Numerical Analysis of Shallow Foundations on Geogrid Reinforced Soil. In: MATEC Web of Conferences, Volume 120 (2017), International Conference on Advances in Sustainable Construction Materials & Civil Engineering Systems (ASCMCES-17), Sharjah, United Arab Emirates, April 18-20, 2017, A. Shanableh, M. Maalej, S. Barakat, M. Omar, S. Al-Toubat, R. Al-Ruzouq and K. Hamad (Eds); ISBN 2261236X.
8. M. Omar , K. Hamad, and A. Shanableh. Early Warning Indicator at University of Sharjah - Proposed System. In: A. Shanableh, K. Hamad, M. Omar, and M. Bettayeb (Eds) Quality Assurance in Engineering Education, pp. 298-302, 978-9948-10-122-2, University of Sharjah, 2016
PUBLICATIONS - JOURNAL
9. Alotaibi, E., Omar, M. , Shanableh, A., Zeiada, W., Fattah, M. Y., Tahmaz, A., & Arab, M. G. (2021). Geogrid bridging over existing shallow flexible PVC buried pipe—Experimental study. <u>Tunnelling and Underground Space Technology</u> , 113, 103945.
10. Alotaibi, E., Mostafa, O., Nassif, N., Omar, M. , & Arab, M. G. (2021). Prediction of Punching Shear Capacity for Fiber-Reinforced Concrete Slabs Using Neuro-Nomographs Constructed by Machine Learning. Journal of Structural Engineering , 147(6), 04021075.

<p>11. Arab, M. G., Omar, M., Almajed, A., Elbaz, Y., & Ahmed, A. H. (2021). Hybrid technique to produce bio-bricks using enzyme-induced carbonate precipitation (EICP) and sodium alginate biopolymer. <u>Construction and Building Materials</u>, 284, 122846.</p>
<p>12. Arab, M. G., Rohy, H., Zeiada, W., Almajed, A., & Omar, M. (2021). One-Phase EICP Biotreatment of Sand Exposed to Various Environmental Conditions. <u>Journal of Materials in Civil Engineering</u>, 33(3), 04020489.</p>
<p>13. Arab, M. G., Alzara, M., Zeiada, W., Omar, M., & Azam, A. (2020). Combined effect of compaction level and matric suction conditions on flexible pavement performance using construction and demolition waste. <u>Construction and Building Materials</u>, 261, 119792.</p>
<p>14. Omar, M., Shanableh, A., Hamad, K., Tahmaz, A., Arab, M. G., & Al-Sadoon, Z. (2019). Nomographs for predicting allowable bearing capacity and elastic settlement of shallow foundation on granular soil. <u>Arabian Journal of Geosciences</u>, 12(15), 1-11.</p>
<p>15. Zeiada, W., Hamad, K., Omar, M., Underwood, B. S., Khalil, M. A., & Karzad, A. S. (2019). Investigation and modelling of asphalt pavement performance in cold regions. <u>International Journal of Pavement Engineering</u>, 20(8), 986-997.</p>
<p>16. Omar, M., Shanableh, A., Mughieda, O., Arab, M., Zeiada, W., & Al-Ruzouq, R. (2018). Advanced mathematical models and their comparison to predict compaction properties of fine-grained soils from various physical properties. <u>Soils and Foundations</u>, 58(6), 1383-1399.</p>
<p>17. Omar, M., Shanableh, A., Arab, M., Hamad, K., & Tahmaz, A. (2018). Advanced Mathematical Models to Predict the Compaction Properties of Coarse-Grained Soils from Various Physical Properties. <u>Geotechnical and Geological Engineering</u>, 36(6), 3467-3483.</p>
<p>18. Omar, M., Hamad, K., Al Suwaidi, M., & Shanableh, A. (2018). Developing artificial neural network models to predict allowable bearing capacity and elastic settlement of shallow foundation in Sharjah, United Arab Emirates. <u>Arabian Journal of Geosciences</u>, 11(16), 1-11.</p>
<p>19. Al-Ruzouq, R., Shanableh, A., Omar, M., & Al-Khayyat, G. (2018). Macro and micro geo-spatial environment consideration for landfill site selection in Sharjah, United Arab Emirates. <u>Environmental monitoring and assessment</u>, 190(3), 1-15.</p>
<p>20. Maher Omar, Field Plate Load Test to Investigate Stress Distribution in Soil Mass with and without Reinforcement - United Arab Emirates, <u>Jordan Journal of Civil Engineering</u> , Vol. 11, No. 4, 2017</p>
<p>21. Waleed Zeiada, Khaled Hamad, Maher Omar, B. Shane Underwood, Mohamad Ali Khalil & Abdul Saboor Karzad (2017): Investigation and modelling of asphalt pavement performance in cold regions, <u>International Journal of Pavement Engineering</u>, DOI:10.1080/10298436.2017.1373391</p>
<p>22. A Shanableh, M Imteaz, K Hamad, M Omar, T Merabtene, M Siddique, "Potential impact of global warming on whiting in a Semi-Enclosed Gulf", <u>International Journal of Global Warming</u>, Vol. 13, Nos. 3/4, 2017</p>

<p>23. Maher Omar (2017) Empirical correlations for predicting strength properties of rocks – United Arab Emirates, <u>International Journal of Geotechnical Engineering</u>, Vol. 11, No. 3, pp 248-261 DOI: 10.1080/19386362.2016.1214339</p>
<p>24. Maher Omar, Abdallah Shanableh & Marwan Al Zaylaie, "Modification of the Swelling Characteristics and Phosphorus Retention of Bentonite Clay Using Alum", <u>Soils and Foundations</u>, Vol. 56, No. 5, pp 861- 868, 2016</p>
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SUPERVISING MASTERS & PH.D DEGREES (Recent)

No	Thesis Title	Student	Year
1	Numerical Investigation of Suction Caissons for Offshore Applications	Nourhan Sheleh	2018-2019 In Process
2	Predicting Settlements of Shallow Footings on Granular Soil Based on Field Testing - Approaches for Accuracy and Reliability	Yusef Al-Tayasna	2018-2019 In Process
3	Using Biopolymers to Stabilize Shallow Sandy Soil to Support Light Structures	Mohammed Refaei	2017-2019 In Process
4	Protection of Buried Pipelines Using Geosynthetic Reinforced Sand	Emran Alotaibi	June 2019

5	Predicting Allowable Bearing Capacity And Settlement of Shallow Foundations Using Artificial Neural Networks In Sharjah, United Arab Emirates	Mey Al Suwaidi	May 2016
6	Geotechnical Mapping of Seismic Risk of Sharjah City, United Arab Emirates	Samar Ibrahim	Dec 2016
7	One Dimensional Dynamic Nonlinear Site Response Analysis, Sharjah City (United Arab Emirates) Case Study	Mohammed Baroud	June 2016