Curriculum Vitae Ahmed Al-Mayahi

Lecturer in Soil Sciences Department of Soils, Water and agricultural Engineering College of Agricultural and Marine Sciences Sultan Qaboos University, PO Box 34, Al-Khoud 123, Oman <u>Tel</u>: 2414 3642; <u>GSM</u>: +968 99812971; Email: <u>a.almayahi@squ.edu.om</u>



1. PERSONAL DETAILS

Full name	Ahmed Khalfan Al-Mayahi		
Present	Lecturer in Soil Sciences; Sultan Qaboos University (SQU)		
position			
Address	College of Agricultural and Marine Sciences, Sultan Qaboos University, Al-Khoud 123,		
	PO Box 34, Sultanate of Oman		
Date of birth	18/1/1992		
Nationality	Omani		
Marital	Married		
status			
Date of	21/06/2020		
appointment			
Degrees	MSc. in Soil and Water Management, SQU, Oman (2016-2018)		
awarded	Dea in Sail Sainness (Maior) & Water Tashnalam (Miner) SOUL Omen (2010-2016)		
(years)	BSC. In Soil Sciences (Major) & water Technology (Minor), SQU, Oman (2010-2016)		
Work Lecturer (SQU), 2019-Present.			
experience			
(Position and Research Assistant (Teaching and Research Assistant; SQU) – 2018-2019			
Dates)			
Research	Hydropedology and Modeling of vadose zone using HYDRUS (2D/3D)		
Interests and	Management of salt affected soils in arid lands		
Professional	 Socioecnomics in soil science 		
Expertise			
Websites			
G Scholar	Ahmed Al-Mayahi (0000-0002-8922-2165) (orcid.org)		
ResearchGate	https://scholar.google.com/citations?hl=en&user=byXjkhlAAAAJ		
WoS/Publons	https://www.researcngate.net/profile/Anmed_AI-Mayam https://www.scopus.com/authid/detail.uri?authorId=57205546261		
Scopus	https://drive.google.com/file/d/1254R7agBhu5W6uUfokUzi11w_vfkLRkD/view?usp-sharing		
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2. Awards, Honors, Recognition and Achievements				
#	Year	Award, achievement, recognition	Source	
1	2021	Won the best research group at SQU. Our research group is "Water Resources Assessment and Management in Arid and Desert Area".	SQU	
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2	2019	Won the National Research Award for young research in the research area of: Environment and Biological Resources Best published research led by a young researcher (a non-PhD holder) for the research article title: "Home gardening in Muscat, Oman: Gardeners' practices, perceptions and motivations"	TRC
3	3 2016 Full scholarship for MSc The scholarship was awarded by TRC of Oman for a project title "Artificial Capillary Barriers: A smart Agro-engineering Technique for Saving Irrigation Water in Oman [Project Code: RC/AGR/SWAE/17/01]		TRC
4	2015	Academic excellence award For being the best student of the College of Agricultural and Marine Sciences during the academic years 2015-2016.	SQU
5	2014	First place research project in the sector of environment and biological resources Project title "Characterization of urban soil in A'Seeb area" funded by TRC of Oman through the Faculty Mentored Undergraduate Research Award Program (FURAP), a team award.	The Research Council of Oman (TRC)
6	2013	His Majesty Sultan Qaboos travel award For outstanding students from SQU to travel abroad for visiting the best Australian universities.	His Majesty Sultan Qaboos

3. Teaching			
Teaching courses			
Undergraduate courses	Postgraduate courses		
Introduction to Soil & Water (SWAE 2201)	None		
Management of Salt Affected Soils (SWAE4412)			
Desertification and Land Restoration (SWAE3002)			
Seminar and presentation skills (CAMS3000)			

	4. Scholarly Activities
	Selected Refereed Journal Publications
1	Kacimov, A., Al-Maktoumi, A., Al-Ismaily, S., Al-Mayahi, A., Al-Shukaili, A., Obnosov, Y., &
	Abdalla, O. (2021). Water table rise in arid urban area soils due to evaporation impedance and its
	mitigation by intelligently designed capillary chimney siphons. Environmental Earth Sciences, 80(17),
	1-17.
2	Al-Ismaily, S., Al-Mayhai, A., Al-Busaidi, H., Kacimov, A., Blackburn, D., Al-Maktoumi, A., & Al-
	Siyabi, B. (2021). Soil skills challenge: A problem-based field competition towards active learning for
	BSc. Geoscience students. Geoderma, 385, 114903.
3	Menezes-Blackburn, D., Al-Ismaily, S., Al-Mayahi, A., Al-Siyabi, B., Al-Kalbani, A., Al-Busaid, H.,
	& Al-Yahyai, R. (2021). Impact of a Nature-Inspired Engineered Soil Structure on Microbial
	Diversity and Community Composition in the Bulk Soil and Rhizosphere of Tomato Grown Under
	Saline Irrigation Water. Journal of Soil Science and Plant Nutrition, 21(1), 173-186.
4	Amoatey, P., Al-Mayahi, A., Al-Harthy, I., Al-Jabri, K., Addi, M. N., Siddiqi, S. A., & Baawain, M.
	S. (2021). Characterization and exposure assessment to urban air toxics across Middle Eastern and
	North African countries: a review. Environmental Monitoring and Assessment, 193(8), 1-29.

5	Kacimov, A. R., Al-Shukaili, A., Al-Mayahi, A., & Al-Maktoumi, A. (2021). Triangular Ditch of		
	Fastest Infiltration into Porous Substratum. Journal of Irrigation and Drainage Engineering, 147(7),		
	06021002.		
6	Al-Shukaili, A., Al-Mayahi, A., Al-Maktoumi, A., & Kacimov, A. R. (2020). Unlined trench as a		
	falling head permeameter: Analytic and HYDRUS2D modeling versus sandbox experiment. Journal of		
	Hydrology, 583, 124568.		
	Al-Maktoumi, A., Kacimov, A., Al-Busaidi, H., Al-Ismaily, S., Al-Mayahi, A., Al-Khanbashi, S., &		
7	Al-Sulaimi, A. (2020). Enhancement of infiltration rate of clogged porous beds in the vicinity of dams		
	in arid zones by the roots of indigenous Ziziphus spina-christ trees. Hydrological Processes, 34(22),		
	4226-4238.		
8	Al-Mayahi, A., Al-Ismaily, S*., Al-Maktoumi, A., Al-Busaidi, H., Kacimov, A., Janke, R., &		
	Šimůnek, J. (2020). A smart capillary barrier-wick irrigation system for home gardens in arid zones.		
	Irrigation Science, 38(3).		
	Shaharoona, B., Al-Ismaily, S*., Al-Mayahi, A., Al-Harrasi, N., Al-Kindi, R., Al-Sulaimi, A., & Al-		
9	Abri, M. (2019). The role of urbanization in soil and groundwater contamination by heavy metals and		
	pathogenic bacteria: A case study from Oman. Heliyon, 5(5), e01771.		
10	Al-Mayahi, A., Al-Ismaily, S*., Gibreel, T., Kacimov, A., & Al-Maktoumi, A. (2019). Home		
	gardening in Muscat, Oman: Gardeners' practices, perceptions and motivations. Urban Forestry &		
1	<i>Urban Greening</i> , <i>38</i> , 286-294.		

*Corresponding author

	Conference Abstracts /Poster/Chapters		
1	Said Al-Ismaily, Ahmed Al-Mayhai, Hamad Al-Busaidi, Anvar Kacimov, Daniel Blackburn,		
	Buthaina Al-Siyabi, and Ali Al-Maktoumi (2020). Soil Skills: A Problem-Based Field Exercise		
	Towards Active Learning for BSc. Geoscience Students. Extended abstracts for the International		
	Conference "Reimagine teaching to maximize students learning". 10-12 February 2020; Sultan		
	Qaboos University, Muscat, Oman. Conference extended abstract.		
2	A Al-Mayahi, S Al-Ismaily, A Al-Maktoumi, H Al-Busaidi, A Kacimov, R Janke, J Bouma, J		
	Šimůnek. (2020). From nature to a novel irrigation system for home gardens in arid zone countries. 2nd		
	International Water Conference on Water Resources in Arid Areas, Muscat, Oman		
3	Ahmed Al Mayahi, Said Al Ismaily, Tarig Gibree, Ali Al Maktoomi, and Anvar Kacimov.		
	Urban Gardening in Muscat: The Motivations, Perceptions and Water Management. Third		
	Omani Desalination Researchers Network Meeting & 3rd MEDRC Alumni Lecture Series		
	Under the topic: "Towards efficient use of water in agriculture" Muscat, Oman. February,		
	22nd 2018.		
4	Ahmed Al Mayahi. Impacts and Adaptations of Urban Water Management to Climate Change in		
	Muscat, Oman. Third Omani Desalination Researchers Network Meeting & 3rd MEDRC Alumni		
	Lecture Series Under the topic: "Towards efficient use of water in agriculture". Muscat, Oman.		
	February, 22 nd 2018.		

	Research projects - Selected					
#	Role	Year/	Project title	Fund by	Fund value	
		Completion			OMR	USD
1	Co-PI	2021 In Progress	Integrating modern soil and water smart technologies for salinity management in the Sultanate of Oman	His Majesty Fund, SQU	73,000	190,000

Collaborations and Consultancies			
Collaborators	Institute/University/Organization	Country	
1 Drof Johan Bouma	Wegeningen University of gamzation	The	
1- FIOL JOHAN BOUINA	Research	Netherlands	
2 Prof Dani Or	ETH Zurich Switzerland (Swige	Switzerland	
2- Plot. Dani Or	Federal Institute of Technology	Switzenand	
3- Prof. Jirka Simunek	University of California at	USA	
	Riverside		