

Curriculum Vitae

Dr. Yaseen Ahmed Al-Mulla

Associate Professor of Biosystems Engineering
Department of Soils, Water, and Agricultural Engineering
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1. PERSONAL DETAILS

Full name	Dr. Yaseen Ahmed Al-Mulla
Present position	Associate Professor of Biosystems Engineering & Director, Remote Sensing and GIS Research Center, SQU
Address	College of Agricultural and Marine Sciences, Sultan Qaboos University, Al-Khoud 123, PO Box 34, Sultanate of Oman
Date of birth	15/07/1971
Nationality	Omani
Marital status	Married
Date of appointment	1993
Degrees awarded (years)	PhD in BioSystems Engineering, Washington State University, USA (2000 - 2004)
	MSc. in Irrigation Engineering, Utah State University, USA (1994 - 1997)
	BSc. in Agricultural Mechanization, Sultan Qaboos University, Oman (1989 - 1993)
Work experience (Position and Dates)	Director, Remote Sensing and Geographic Information System Research Center , 2017–present
	Associate Professor (SQU) , 2015 – present
	Assistant Professor (SQU) , 2010 – 2015
	Assistant Dean for Training and Community Service (SQU) , 2009-2010
	Assistant Dean for Extension (SQU) , 2006 – 2009
	Assistant Professor (SQU) , 2004 – 2006
	Assistant Lecturer (SQU) , 1997 – 2000 [2000 – 2004; Ph.D. Study leave]
	Demonstrator (SQU) , 1993 - 1994 [1994 –1997, MSc Study leave]
Research Interests and Professional Expertise	<ul style="list-style-type: none">• Remote Sensing and GIS technologies for environmental assessment/mapping and land use/change.• Use of sensors, instrumentations, UAV (Drones) & IoT for real time monitoring/controlling/mapping for open and controlled env.• Land and water engineering• Use of Machine Learning & AI in Remote Sensing & GIS

Websites	https://orcid.org/0000-0003-4346-799X
ORCID	https://scholar.google.com/citations?user=qLDezE8AAAAJ&hl=en
G.Scholar	https://www.researchgate.net/profile/Yaseen-Al-Mulla
ResearchGate	https://publons.com/researcher/1674761/yaseen-al-mulla/
WoS/Publons	https://www.scopus.com/authid/detail.uri?authorId=15077745700
Scopus	https://www.squ.edu.om/Portals/10/SWAE%20Faculties/Yaseen_CV.pdf?ver=2020-08-16-212720-497
Detailed CV	

2. Awards, Honors, Recognition and Achievements

#	Year	Award, achievement, recognition	Source
1	2021	Winner, ESAT CubeSat Project competition from IEEE-GRSS	IEEE
2	2021	Recipient, among the IEEE Oman Section Executive Board Members, a 2021 IEEE-MGA Outstanding Small Section Award	IEEE
3	2020	Letter of Congratulations for establishing IEEE-GRSS Chapter in Oman	Vice President of IEEE Geographic and Technical Activities
4	2019-2020	Certificates of recognition for being a peer reviewer	Elsevier, SPIE & Springer Nature journals
5	2018	Selected as Scientific Ambassador representing Oman	IEEE-GRSS
6	2015	Recipient of an award, as a project's PI-Oman, of "The Most Interesting Project" in the Middle East and North Africa Network of Water Centers of Excellence in the First Biennial Congress	The US Agency for International Development and MENA NWC
7	2014	Best poster award	Symposium of Sultan Qaboos Academic Chairs, Japan
8	2013	A medal and certificate in recognition of serving as convener of the international conference on agricultural engineering held in Oman	International Society for Horticultural Science-Commission Horticultural Engineering
9	2012	Outstanding Academic Award	Vice-Chancellor, SQU
10	2011	Invitation and travel grant awarded to participate in the 1st Arab-American Frontiers of Science, Engineering, and Medicine symposium in Kuwait	The U.S. National Academy of Sciences
11	2006	Letter of Congratulations for producing CAMS Students Society's newsletter as a first time of CAMS history	Dean of CAMS, SQU
12	2002	Best poster award in a Scientific Graduate Poster Competition	Biosystems Engineering Dept., Washington State University, USA

3. Teaching

Teaching courses	
Undergraduate courses	Postgraduate courses
Computer Applications I (COPM2001)	CAD Applications in Irrigation Engineering (SWAE6004)
Introduction to Agricultural Engineering (SWAE2001)	
Seminar and Presentation Skills (CAMS3000)	Advanced Topics in Soils, Water and Agricultural Engineering (SWAE6009)
Computer Applications II (CAMS3002)	
Land Surveying (SWAE3005)	

Fundamentals of Computer Programming (SWAE3306)	Advanced Remote Sensing Techniques for Environmental Applications (SWAE6303)
Instrumentation & Control Systems (SWAE3308)	
Research Projects in Soils, Water and Agricultural Engineering (SWAE4902)	

Scholarly Activities	
Selected Refereed Journal Publications	
1	Siddiqi S.A., Y.A. Al-Mulla , I. McCann, G. AbuRumman, M. Belhaj, S. Zekri, A. Al-Ismaili, S. Rahman. 2021. Smart monitoring, sap-flow, stem-psychrometer and soil-moisture measurements tools for precision irrigation and water saving of date palm. International Journal of Agriculture and Biology 00:000–000. [WoS, Scopus, IF=0.822]
2	Al-Mulla, Y. 2021. IEEE Oman Section of the Geoscience and Remote Sensing Society: From Ambassador to a Chapter. IEEE Geoscience and Remote Sensing Magazine 3096725. [WoS, Scopus, IF=8.225]
3	Ali, A., Y.A. Al-Mulla , Y. Charabi, M. Al-Wardy, G. Al-Rawas. 2021. Use of multispectral and thermal satellite imagery to determine crop water requirements using SEBAL, METRIC, and SWAP models in hot and hyper-arid Oman. Arabian Journal of Geosciences 14 (7), 1-21. [WoS, Scopus, IF=1.827]
4	Al-Aufi, K., Al-Wardy, M., Choudri, B.S., Ahmed, M., Al-Rawas, G., and Al-Mulla, Y. 2020. Spatial and temporal assessment of vegetation cover in Al- Suwaiq using satellite image analysis. Journal of Agricultural and Marine Sciences 26(1): 1–12.
5	Al-Rahbi, S., Y. Al-Mulla , H. Jayasuriya. 2020. Evaluation of Salinity Intrusion in Al-Batinah Arable Coastal Belt using unmanned aerial vehicle (UAV) color imagery. Journal of Agricultural and Marine Sciences 24:44–50.
6	Al-Rahbi, S., Y.A. Al-Mulla , H. Jayasuriya, B. Choudri. 2019. Analysis of true-color images from unmanned aerial vehicle to assess salinity stress on date palm. Journal of Applied Remote Sensing 13(3), 034514. [WoS, Scopus, IF=1.530]
7	Al- Rawahy, M.S., S.A. Al- Rawahy, Y.A. Al-Mulla and S.K. Nadaf. 2019. Influence of Nutrient Solution Temperature on its Oxygen Level and growth, Yield and Quality of Hydroponic Cucumber. Journal of Agricultural Science (11) 3:75-92
8	Al- Rawahy, M.S., S.A. Al- Rawahy, Y.A. Al-Mulla and S.K. Nadaf. 2019. Effect of Cooling Root-Zone Temperature on Growth, Yield and Nutrient Uptake in Cucumber Grown in Hydroponic System During Summer Season in Cooled Greenhouse. Journal of Agricultural Science (11) 1:47-60
9	Al-Mulla, Y.A. , M. Al-Balushi, H. Al-Busaidi, A. Al-Mahdouri, C. Kittas, N. Katsoulas. 2018. Analysis of Microclimate and Cucumber Fruit Yield in A Screenhouse and an Evaporatively Cooled Greenhouse in A Semi-Arid Location. Transactions of the ASABE 61(2):619-629. [WoS, Scopus, IF=1.188]
10	Seerangurayar, T., Manickavasagan, A., Al-Ismaili, A. M., & Al-Mulla, Y. A. 2018. Effect of carrier agents on physicochemical properties of foam-mat freeze-dried date powder. Drying Technology, 36(11), 1292-1303. [WoS, Scopus, IF=4.452]

Refereed Conference Papers/ Proceedings/ Books and Chapters in Books	
1	Al-Mulla, Y.A. and T. Al-Badi. 2021. IoT and RS Techniques for Enhancing Water Use Efficiency and Achieving Water Security. Proceedings of International Conference on Machine Learning and Machine Intelligence. ACM Digital Library. ISBN: 978 1 4503 8424 7
2	Al-Mulla, Y.A. , and A. Al-Ruheili. 2020. Use of Drones and Satellite Images to Assess the Health of Date Palm Trees. IEEE International Geoscience and Remote Sensing Symposium, IEEE Xplore pp. 6297-6300, doi: 10.1109/IGARSS39084.2020.9324065.
3	Afsahhosseini, F. and Y.A. Al-Mulla . 2020. Machine Learning in Tourism. Proceedings of International Conference on Machine Learning and Machine Intelligence. ACM Digital Library. ISBN: 978-1-4503-8834-4

4	Al-Habsi, R., Y. A. Al-Mulla , Y. Charabi, H. Al-Busaidi and M. Al-Belushi. Validation and integration of Wheat Seed Emergence Prediction Model with GIS and Numerical Weather Prediction Models. 2016. In: Communications in Computer and Information Science. Springer.
5	Al Mulla, Y. , M. Ahmed, M., and H.P. Jayasuriya. (Eds). 2014. Special Issue of ACTA-Horticulturae (2014 August) ISHS Acta Horticulturae 1054. ISBN 978-94-62610-45-3.

Conference Abstracts /Poster/Chapters	
1	Al-Rahbi, S., Y.A. Al-Mulla and B. Choudri. 2018. Evaluation of Salinity Stress on Date Palm Leaves Using Color Images Analysis. OP-139: Image Analysis and Spectroscopy in Agriculture. Book of Abstracts, XIX. World Congress of CIGR, 22 - 25 April, Antalya, Turkey
2	Al-Mulla, Y. and S. Siddiqi. 2017. Innovative Approaches for Water and Food Security through Enhancing Irrigation Water Conservation and Productivity in Oman. 11th International AIIA2017 Conference "Biosystems Engineering addressing the human challenges of the 21st Century" July 5-8, Bari, Italy. Book of abstracts
3	Al-Mulla, Y. 2015. Integrating New Technologies into the Effective Planning of Irrigation Schedules Towards Efficient Water Use and Minimum Loss. 2015.International Symposium On Irrigation of Horticultural Crops, 8 - 11 June, Lleida, Spain

Refereed Encyclopedia Chapters/Entries	
1	Al-Mulla, Y. 2010. Irrigation Engineer qualification exam for employment in the Royal Court Affairs.

Research projects - Selected						
#	Role	Year/ Completion	Project title	Fund by	Fund value	
					OMR	USD
1	PI	Completed	Mapping and Change Detection Study of Frankincense Tree Using GIS Database and Remote Sensing Techniques in in Dhofar, Oman	Joint project between SQU and University of Nizwa	37,000	96,104
2	PI	In Progress	Innovative Automated Approach Towards Water Security Using Remote Sensing and IoT Technologies	His Majesty Strategic Grant, SQU	70,000	182,000
3	PI	Completed	Use of Drones and Satellite Images To Assess The Health of Date Palm Trees	Internal Grant, SQU	10,000	25,974
4	Co-PI	In Progress	Interactive Environmental Atlas of Oman	Diwan of Royal Court	130,000	337,661
5	PI-Oman	Completed	Application of Near-Real Time Monitoring Systems for Irrigated Agriculture in MENA	USAID/FABRI Organization	161,712	420,029
6	Co Inv	Completed	Development of Controlled Env. Agriculture in Oman	HM Strategic Grant, SQU	249,810	648,855

Collaborations and Consultancies		
Collaborators	Institute/University/Organization	Country
1- Prof. Farid Melgani	University of Trento	Italy
2- Prof. R. Qamar and Dr. F. Alayni	ICESCO	Morocco
3- Prof. Claudio Stockle	Washington State University	USA