



## Faculty Name: Dr. Abdulaziz Ibrahim Almulhim

**POSITION:** Assistant Professor

### Personal Data

Nationality | Saudi

Department | Urban and Regional Planning

Official IAU Email | aialmulhim@iau.edu.sa

### Language Proficiency

Language	Read	Write	Speak
Arabic	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent

### Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2021	Faculty Mentorship Certification Program (FMCP)	Imam Abdulrahman Bin Faisal University	Saudi Arabia
2020	PhD in Urban and Regional Planning	University of Liverpool	United Kingdom
2020	Advanced Course in Energy Within Environmental Constraints	University of Harvard	United States of America
2015	MSc in Urban and Regional Planning	University of Colorado Denver	United States of America
2011	BSc with Honors in Urban and Regional Planning	Imam Abdulrahman Bin Faisal University (Formerly: University of Dammam)	Saudi Arabia



PhD Title:

<b>PhD</b>	Analysis of Residents' Water Consumption and Conservation Patterns in the Saudi City - Towards Sustainable Water Management Strategies: The Case of Dammam
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Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work		Date
Assistant Professor	Imam Abdulrahman Bin Faisal University	Dammam Saudi Arabia	2020-Now
Lecturer	Imam Abdulrahman Bin Faisal University	Dammam Saudi Arabia	2015-2020
Demonstrator	Imam Abdulrahman Bin Faisal University (Formerly: University of Dammam)	Dammam Saudi Arabia	2012-2015

Scientific Achievements

**Published Refereed Scientific Researches**

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
23	<b>Almulhim, A.;</b> Abubakar, I.R.	Understanding household attitudes to water conservation in Saudi Arabia: towards sustainable communities	<i>International Journal of Water Resources Development</i> , 1-20 (2023)
22	<b>Almulhim, A.,</b> and Cobbinah, P. B.	Can rapid urbanization be sustainable? The case of Saudi Arabian cities	<i>Habitat International</i> , 139, 102884 (2023)
21	Aina, Y.; Abubakar, I.; <b>Almulhim, A.;</b> Dano, U.; Maghsoodi Tilaki, M.; Dawood, S.	Digitalization and Smartification of Urban Services to Enhance Urban Resilience in the Post-Pandemic Era: The Case of the Pilgrimage City of Makkah	<i>Smart Cities</i> , 6(4), 1973-1995 (2023)
20	<b>Almulhim, A.,</b> Al-Saidi, M.	Circular economy and the resource nexus: Realignment and progress towards sustainable development in Saudi Arabia	<i>Environmental Development</i> 46, 100851 (2023)
19	<b>Almulhim, A.,</b> and Cobbinah, P. B.	Urbanization-environment conundrum: an invitation to	<i>International Journal of Sustainable</i>



		sustainable development in Saudi Arabian cities	<i>Development and World Ecology</i> , 1–15 (2023)
18	Kafy, A., Bakshi, A., Saha, M., Faisal, A., <b>Almulhim, A.</b> , Rahaman, Z., and Mohammad, P.	Assessment and prediction of index based agricultural drought vulnerability using machine learning algorithms	<i>Science of The Total Environment</i> 867, 161394 (2023)
17	Xu, D., Abbasi, K., Hussain, K., Albaker, A., <b>Almulhim, A.</b> , and Alvarado, R.	Analyzing the factors contribute to achieving sustainable development goals in Pakistan: A novel policy framework	<i>Energy Strategy Reviews</i> , 45, 101050 (2023)
16	Jodder, P., Leya, R., Rahaman, K., Kafy, A., Rahaman, Z., and <b>Almulhim, A.</b>	Modeling the Impacts of Residential, Commercial, and Industrial Land use on Carbon Footprints Using Kernel Density Function in an Urban Setting	<i>Earth Systems and Environment</i> , 7(1), 237–254 (2023)
15	Saha, M., Kafy, A., Bakshi, A., Faisal, A., <b>Almulhim, A.</b> , Rahaman, Z., Al Rakib, A., Fattah, M., Akter, K., Rahman, M., Zhang, M., and Rathi, R.	Modelling microscale impacts assessment of urban expansion on seasonal surface urban heat island intensity using neural network algorithms	<i>Energy and Buildings</i> , 275, 112452 (2022)
14	AlDousari, A., Al Kafy, A., Saha, M., Abdul Fattah, M., <b>Almulhim, A.</b> , Al Rakib, A., Amir Jahir, D., Rahaman, Z., Bakshi, A., Shahrer, M., and Rahman., M	Modelling the impacts of land use/land cover changing pattern on urban thermal characteristics in Kuwait	<i>Sustainable Cities and Society</i> , 86, 104107 (2022)
13	<b>Almulhim, A.</b> , Bibri, S., Sharifi, A., Ahmad, S., and Almatar, K.	Emerging Trends and Knowledge Structures of Urbanization and Environmental Sustainability: A Regional Perspective	<i>Sustainability</i> , 14(20), 13195 (2022)
12	Zhou, R., Abbasi, K., Salem, S., <b>Almulhim, A.</b> and Alvarado, R	Do natural resources, economic growth, human capital, and urbanization affect the ecological footprint? A modified dynamic ARDL and KRLS approach	<i>Resources Policy</i> 78, 102782 (2022)
11	Rahaman, Z., Al Kafy, A., Saha, M., Abdul Rahim, A., <b>Almulhim, A.</b> , Rahaman, S., Fattah, M., Rahman, M., S Kalaivani, and Al Rakib., A	Assessing the impacts of vegetation cover loss on surface temperature, urban heat island and carbon emission in Penang city, Malaysia	<i>Building and Environment</i> 222, 109335 (2022)



10	Zen, I., Mustapha, M., Al Madhoun, W., Asmawi, M and <b>Almulhim, A.</b>	Case study of defragmentation of city scale's greenhouse gas emission In melaka	<i>Journal of Sustainability Science and Management</i> 17 (7), 1-20 (2022)
9	Zhang, J., Abbasi, K., Hussain, K., Akram, S., Alvarado, R. and <b>Almulhim, A.</b>	Another perspective towards energy consumption factors in Pakistan: Fresh policy insights from novel methodological framework	<i>Energy</i> 249,123758 (2022)
8	<b>Almulhim, A.</b>	Understanding public awareness and attitudes toward renewable energy resources in Saudi Arabia	<i>Renewable Energy</i> 192, 572-582 (2022)
7	<b>Almulhim, A.</b>	Household's awareness and participation in sustainable electronic waste management practices in Saudi Arabia	<i>Ain Shams Engineering Journal</i> 13(4),101729. (2022)
6	Zen, I., Uddin, M., Al-Amin, A., Majid, M., <b>Almulhim, A.</b> and Doberstein, B.	Socioeconomics determinants of household carbon footprint in Iskandar Malaysia	<i>Journal of Cleaner Production</i> 347, 131256 (2022)
5	<b>Almulhim, A.;</b> Aina, Y.A.	Understanding Household Water-Use Behavior and Consumption Patterns during COVID-19 Lockdown in Saudi Arabia	<i>Water.</i> 14(3), 314. (2022)
4	<b>Almulhim, A.,</b> Ahmad, I., Sarkar, S, Chavali, M	Consequences of COVID-19 pandemic on solid waste management: Scenarios pertaining to developing countries.	<i>Remediation, 1–11.</i> (2021).
3	<b>Almulhim, A.;</b> Abubakar,I.R.	Understanding Public Environmental Awareness and Attitudes toward Circular Economy Transition in Saudi Arabia.	<i>Sustainability</i> 13(18), 10157. (2021)
2	<b>Almulhim, A.,</b> Aqil, M., Ahmad, S, Abdel-Magid, I.M	Sustainable water planning and management research in Saudi Arabia: a data-driven bibliometric analysis.	<i>Arabian Journal of Geosciences</i> 14,1950. (2021)
1	Almatar, K. and <b>Almulhim, A.</b>	The Issue of Urban Transport Planning in Saudi Arabia: Concepts and Future Challenges.	<i>International Journal of Sustainable Development and Planning, 16(7),</i> 1317-1327(2021)



## Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	Almulhim, A.	“Public Knowledge and Perception of Climate Change and Global Warming in the Context of Environmental Challenges and Policies in Saudi Arabia.”	<i>15th International Conference on Urban Regeneration and Sustainability</i> , Bilbao, Spain, 5–7 October 2021
2	Almulhim, A.	Level of Knowledge, Perception, and Awareness Regarding Climate Change Among the People of Dammam, Saudi Arabia (E037)	<i>8th International Conference on Energy and Environment Research (ICEER 2021)</i> , Roma, Italy, 13-16 September, 2021.

### Member of Editorial Board:

- 1- **Lead Guest Editor** of Special Issue in Land Journal "Urbanization in Sustainable Cities: The Role of Planning and Smart Technologies"
- 2- **Guest Editor** of Special Issue in Journal of Urban Technology "Urban Complexity and Data-Driven Technology in Smart Sustainable Cities"

### Reviewer in Number of Q1 Journals

Journal Name
Journal of Cleaner Production
Science of the Total Environment
Utilities Policy
Habitat international
Land
Environmental Development
Sustainable Cities and Society
Journal of Urban Management
City and environment interactions
Environment, Development and Sustainability
Water policy
Environmental Science and Pollution Research
Water Resources Management
Sustainability



## Awards

#	Title
1	Excellence Reward for publishing in Q1 high impact factor journals at IAU (8 received)

## Research Profile

1	Scopus	<a href="https://www.scopus.com/authid/detail.uri?authorId=57225915131">https://www.scopus.com/authid/detail.uri?authorId=57225915131</a>
2	Google Scholar	<a href="https://scholar.google.com/citations?user=8IoEehUAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=8IoEehUAAAAJ&amp;hl=en</a>
3	Web of Science	<a href="https://www.webofscience.com/wos/author/record/ABE-4254-2021">https://www.webofscience.com/wos/author/record/ABE-4254-2021</a>
4	ORCID:	<a href="https://orcid.org/0000-0002-5384-7219">https://orcid.org/0000-0002-5384-7219</a>

## Teaching Activities

### Undergraduate

#	Course/Rotation Title	No./Code
1	Design Studio (3) (Arch.and Interior)	ARCH 201
2	Design Studio (4) (Urban and Landscape Design)	ARCH 202
3	Design Studio (5): Planning Survey, Analysis, Graphics & Cartography	URPL 301
4	Design Studio (10): Graduation	URPL 502
5	Planning Methods and Techniques (1)	URPL 431
6	Planning Methods and Techniques (2)	URPL 432
7	Housing and Residential Development	URPL 332
8	Planning Law and Administration	URPL 511
9	Urban Conservation and Renewal	UPRL 553
10	Urbanization and Development	UPRL 596
11	New Towns & Recent Urban Development	URPL 556

### Postgraduate

#	Course/Rotation Title	No./Code
1	Legal and Administrative Aspects	URPL 607
	Methods & Techniques in URPL	URPL 604



## Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

### Administrative Responsibilities

#	From	To	Position	Organization
1	2022	Now	Head of the Academic Supervision Unit	Urban and Regional Planning Department
2	2022	Now	Academic Supervision Unit, Member and Department Representative	College of Architecture and Planning
3	2021	Now	External Advisory Committee, Member	Urban and Regional Planning Department
4	2021	Now	Academic Accreditation Committee, Member	Urban and Regional Planning Department
5	2021	Now	Bachelor's Program Development Committee, Member	Urban and Regional Planning Department

Last Update

20/08/2023