

Waqas Ahmed Mahar

Professor

School of Art, Design And Architecture

Email: waqas.mahar@sada.nust.edu.pk

Contact:

LinkedIn: <https://www.linkedin.com/in/architectwaqas/>



About

Dr. Waqas Ahmed Mahar is working as Professor in the School of Art, Design And Architecture. Dr. Waqas Ahmed Mahar has a PhD in Architecture and Urban Planning. Dr. Waqas Ahmed Mahar has published 24 research articles & conference papers having a citation count of 198, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Architecture and Urban Planning	2017 - 2021
Université de Liège , Belgium	
MSc in Planning-Housing	2010 - 2012
Universiti Teknologi Malaysia , Malaysia	
B.Arch in Architecture	2004 - 2009
Mehran University of Engineering & Technology , Pakistan	

Experience

Professor	2025- Present
School of Art, Design And Architecture	
Associate Professor (BPS-20 Equivalent)	2024 - 2025
Aror University of Art, Architecture, Design and Heritage, Sukkur, Sindh, Pakistan , RCW Rohri Bypass, Sukkur, Pakistan	
Chairman, Architecture	2023 - 2025
Aror University of Art, Architecture, Design and Heritage, Sukkur, Sindh, Pakistan , RCW Rohri Bypass, Sukkur, Pakistan	
Professor (Ad-hoc)	2023 - 2024
Aror University of Art, Architecture, Design and Heritage, Sukkur, Sindh, Pakistan , RCW Rohri Bypass, Sukkur, Pakistan	
Chairperson, Department of Architecture	2022 - 2023
Balochistan University of Information Technology, Engineering, and Management Sciences (BUIEMS), Quetta, Pakistan , Baleli, Airport Road, Quetta, Pakistan	
Assistant Professor	2013 - 2023
Balochistan University of Information Technology, Engineering, and Management Sciences (BUIEMS), Quetta, Pakistan , Baleli, Airport Road, Quetta, Pakistan	
Lecturer	2013 - 2013
Balochistan University of Information Technology, Engineering, and Management Sciences (BUIEMS), Quetta, Pakistan , Baleli, Airport Road, Quetta, Pakistan	
Manager of Housing and Residential Care Facilities	2012 - 2012
PPKKTABJJ, Johor, Malaysia , Saleng, Senai, Johor, Malaysia	
Intern	2011 - 2011
Universiti Tunku Abdul Rahman (UTAR), Malaysia , Kuala Lumpur, Malaysia	
Design Consultant	2010 - 2012
THE GLOBAL ARCHITECTS, Hyderabad, Pakistan , Hyderabad, Pakistan	
Intern	2010 - 2010
Mehran University of Engineering and Technology (MUET), Jamshoro, Pakistan , Jamshoro, Pakistan	
Architect	2009 - 2010
THE GLOBAL ARCHITECTS, Hyderabad, Pakistan , Hyderabad, Pakistan	

- Refining climate zoning in North Africa: A 30-Year analysis of heating and cooling degree days for energy planning and adaptation** 2025  
*Mohamed Elhadi Matallah Andreas Matzarakis Aissa Boulkaibet Atef Ahriz Dyna Chourouk Zitouni Fatima Zahra Ben Ratmia Waqas Ahmed Mahar Faten Ghanemi Shady Attia*  
*Energy and Buildings* , Volume 342, Article Number 115852  
**Impact Factor:** 7.100 | **Quartile:** 1  
**DOI:** 10.1016/j.enbuild.2025.115852
- An Investigation of Microclimatic Influences on Pedestrian Perception and Walking Experience in Contrasting Urban Fabrics: The Case of the Old Town and the Lower City of Béjaïa, Algeria** 2025  
*Yacine Mansouri Mohamed Elhadi Matallah Abdelghani Attar Waqas Ahmed Mahar Shady Attia*  
*Urban Science* , Volume 9(7), Article Number 243  
**Impact Factor:** 2.900 | **Quartile:** 1  
**DOI:** 10.3390/urbansci9070243
- Bridging Urban Renewal and Cultural Regeneration: The Case of Meezan Chowk in Quetta, Pakistan** 2025  
*Abdal Khan Tareen Sarina Tareen Abdul Waheed Memon Naveed Iqbal Waqas Ahmed Mahar*  
*Architecture* , Volume 5(3), Article Number 41  
**Impact Factor:** 1.400 | **Quartile:** 3  
**DOI:** <https://doi.org/10.3390/architecture5030041>
- Multi-objective optimization of insulation materials for building energy and comfort improvements in hot and arid regions** 2025  
*Ihsan Ali Changhai Peng Habib Ullah Jingfeng Deng Waqas Ahmed Mahar Aunta Bibi*  
*Building Research and Information* , Pages 1-20  
**Impact Factor:** 3.400 | **Quartile:** 2  
**DOI:** 10.1080/09613218.2025.2506052
- Barriers to Adopting Green Building Practices: A Case Study of Quetta, Pakistan** 2024  
*Maska Khan Muhammad Irfan Muhammad Habib Waqas Ahmed Mahar Asma Batool*  
*The Sciencetech* , Volume 5, Issue 3, Pages 180-196  
**Impact Factor:** N/A
- Measuring community disaster resilience in Southern Punjab: a study of 2022 floods in Pakistan** 2024  
*Anum Aleha Syeda Mahwish Zahra Abdul Waheed Memon Waqas Ahmed Mahar*  
*Natural and Applied Sciences International Journal (NASIJ)* , Volume 5, No. 1, Pages 113-129  
**Impact Factor:** N/A  
**DOI:** <https://doi.org/10.47264/idea.nasij/5.1.8>
- Buffer Zone Policy and its Impact on the Land Value and the Quality of the Built Environment in World Heritage Sites: The Case of Kampung Jawa, Melaka, Malaysia** 2024  
*Sayed Mohammad Mousavi Shariyeh Hosseininasab Waqas Ahmed Mahar*  
*Architecture and Engineering* , Volume 9(1), Pages 91-102  
**Impact Factor:** N/A | **Quartile:** 3  
**DOI:** <https://doi.org/10.23968/2500-0055-2024-9-1-91-102>
- Experimental Investigation of Mechanical Properties of Concrete Mix with Lightweight Expanded Polystyrene and Steel Fibers** 2024  
*Syed Jahanzaib Shah Asad Naeem Farzad Hejazi Waqas Ahmed Mahar Abdul Haseeb*  
*CivilEng* , Volume:5, Issue:1, Pages 209-223  
**Impact Factor:** N/A | **Citations:** 5  
**DOI:** <https://doi.org/10.3390/civileng5010011>
- Effect of Street Asymmetry, Albedo, and Shading on Pedestrian Outdoor Thermal Comfort in Hot Desert Climates** 2024  
*Hakima Necira Mohamed Elhadi Matallah Soumia Bouzaher Waqas Ahmed Mahar Atef Ahriz*  
*Sustainability* , Volume:16, Issue:3, Article Number 1291  
**Impact Factor:** 3.300 | **Quartile:** 2 | **Citations:** 8  
**DOI:** <https://doi.org/10.3390/su16031291>
- Street Design Strategies Based on Spatial Configurations and Building External Envelopes in Relation to Outdoor Thermal Comfort in Arid Climates** 2023  
*Fatima Zahra Ben Ratmia Atef Ahriz Giovanni Santi Soumia Bouzaher Waqas Ahmed Mahar Mohamed Akram Eddine Ben Ratmia Mohamed Elhadi*

Matallah	
<i>Sustainability</i> , Volume:16, Issue:1, Article Number 221	
<b>Impact Factor:</b> 3.300   <b>Quartile:</b> 2   <b>Citations:</b> 5	
<b>DOI:</b> <a href="https://doi.org/10.3390/su16010221">https://doi.org/10.3390/su16010221</a>	
<b>Assessment of Transit Congestion for Sustainable Urban Transport Management in Quetta, Pakistan</b>	2023
Muhammad Amjad Khan Naveed ur Rehman Anwar Abdul Waheed Memon Gohram Khan Malghani Reena Majid Memon Waqas Ahmed Mahar	
<i>The Sciencetech</i> , Volume 4, Issue 3, Pages 35-54	
<b>Impact Factor:</b> N/A	
<b>Urban Sprawl, Its Impact and Challenges: A Case Study of Quetta, Pakistan</b>	2022
Naveed ur Rehman Anwar Waqas Ahmed Mahar Sabeen Qureshi Sohrab Ahmed Marri Gohram Khan Malghani Muhammad Amjad Khan	
<i>Journal of Applied and Emerging Sciences (JAES)</i> , Volume 12, Issue 02, Pages 99-108	
<b>Impact Factor:</b> N/A	
<b>DOI:</b> <a href="http://dx.doi.org/10.36785/jaes.122450">http://dx.doi.org/10.36785/jaes.122450</a>	
<b>Parametric Performance Analysis of the Cooling Potential of Earth-to-Air Heat Exchangers in Hot and Humid Climates</b>	2022
Mushk Bughio Swati Bahale Waqas Ahmed Mahar Thorsten Schuetze	
<i>Energies</i> , Volume:15, Issue:19, Article Number 7054	
<b>Impact Factor:</b> 3.200   <b>Quartile:</b> 3   <b>Citations:</b> 6	
<b>DOI:</b> <a href="https://doi.org/10.3390/en15197054">https://doi.org/10.3390/en15197054</a>	
<b>Factors That Influence Travelers' Willingness to Adopt Bus Rapid Transit (Green Line) Service in Karachi</b>	2022
Rabia Soomro Irfan Ahmed Memon Agha Faisal Habib Pathan Waqas Ahmed Mahar Noman Sahito Zulfiqar Ali Lashari	
<i>Sustainability</i> , Volume:14, Issue:16, Article Number 10184	
<b>Impact Factor:</b> 3.900   <b>Quartile:</b> 2   <b>Citations:</b> 7	
<b>DOI:</b> <a href="https://doi.org/10.3390/su141610184">https://doi.org/10.3390/su141610184</a>	
<b>How Tmrt Affects PET Assessment in Outdoor Environments: A Comparative Study</b>	2022
Kahina Labdaoui Waqas Ahmed Mahar Sabeen Qureshi Sohrab Ahmed Marri	
<i>Journal of Art, Architecture and Built Environment (JAABE)</i> , Volume 5(1), Pages 121-138	
<b>Impact Factor:</b> N/A	
<b>DOI:</b> <a href="https://doi.org/10.32350/jaabe.51.06">https://doi.org/10.32350/jaabe.51.06</a>	
<b>Architecture For “Other”? Building A Critical Account On Architecture “Othering” From Colonial To Post-Colonial Time (19th Century - Present Time)</b>	2022
Sohrab Ahmed Marri Waqas Ahmed Mahar Sabeen Qureshi Reena Majid Memon	
<i>Webology</i> , Volume 19, No. 2, Pages 7923-7935	
<b>Impact Factor:</b> N/A	
<b>Assessment of Human Outdoor Thermal Comfort in a Palm Grove during the Date Palm Phenological Cycle</b>	2022
Mohamed Elhadi Matallah Hicham Fawzi Arrar Mohammed Faci Waqas Ahmed Mahar Fatima Zahra Ben Ratmia Shady Attia	
<i>Atmosphere</i> , Volume 13, Issue 3, Article Number 379	
<b>Impact Factor:</b> 2.900   <b>Quartile:</b> 3   <b>Citations:</b> 3	
<b>DOI:</b> <a href="https://doi.org/10.3390/atmos13030379">https://doi.org/10.3390/atmos13030379</a>	
<b>Prediction of climate change effect on outdoor thermal comfort in arid region</b>	2021
Mohamed Elhadi Matallah Waqas Ahmed Mahar Mushk Bughio Djamel Alkama Atef Ahriz Soumia Bouzaher	
<i>Energies</i> , Volume:14, Issue:16, Article Number 4730	
<b>Impact Factor:</b> 3.252   <b>Quartile:</b> 3   <b>Citations:</b> 9	
<b>DOI:</b> <a href="https://doi.org/10.3390/en14164730">https://doi.org/10.3390/en14164730</a>	
<b>Impact of passive energy efficiency measures on cooling energy demand in an architectural campus building in karachi, pakistan</b>	2021
Mushk Bughio Muhammad Shoaib Khan Waqas Ahmed Mahar Thorsten Schuetze	
<i>Sustainability (Switzerland)</i> , Volume:13, Issue:13, Article Number 7251	
<b>Impact Factor:</b> 3.889   <b>Quartile:</b> 2   <b>Citations:</b> 23	
<b>DOI:</b> <a href="https://doi.org/10.3390/su13137251">https://doi.org/10.3390/su13137251</a>	
<b>Assessment of passive retrofitting scenarios in heritage residential buildings in hot, dry climates</b>	2021
Hanan S.S. Ibrahim Ahmed Z. Khan Waqas Ahmed Mahar Shady Attia Yehya Serag	
<i>Energies</i> , Volume:14, Issue:11, Article Number 3359	

**Impact Factor:** 3.252 | **Quartile:** 3 | **Citations:** 13

**DOI:** <https://doi.org/10.3390/en14113359>

**Development of spatial distribution maps for energy demand and thermal comfort estimation in Algeria**

2020

*Samir Semahi Mohammed Amin Benbouras Waqas Ahmed Mahar Nouredine Zemmouri Shady Attia*

*Sustainability (Switzerland)* , Volume:12, Issue:15, Article Number 6066

**Impact Factor:** 3.251 | **Quartile:** 2 | **Citations:** 23

**DOI:** <https://doi.org/10.3390/su12156066>

**Comparative analysis of indoor environmental quality of architectural campus buildings' lecture halls and its' perception by building users, in Karachi, Pakistan**

2020

*Mushk Bughio Thorsten Schuetze Waqas Ahmed Mahar*

*Sustainability* , Volume 12, Issue 7, Article Number 2995

**Impact Factor:** 3.251 | **Quartile:** 2 | **Citations:** 23

**DOI:** <https://doi.org/10.3390/su12072995>

**Sensitivity analysis of passive design strategies for residential buildings in cold semi-arid climates**

2020

*Waqas Ahmed Mahar Griet Verbeeck Sigrid Reiter Shady Attia*

*Sustainability (Switzerland)* , Volume:12, Issue:3, Article Number 1091

**Impact Factor:** 3.251 | **Quartile:** 2 | **Citations:** 45

**DOI:** <https://doi.org/10.3390/su12031091>

**An investigation of thermal comfort of houses in dry and semi-arid climates of Quetta, Pakistan**

2019

*Waqas Ahmed Mahar Griet Verbeeck Manoj Kumar Singh Shady Attia*

*Sustainability* , Volume 11, Issue 19, Article Number 5203

**Impact Factor:** 2.576 | **Quartile:** 2 | **Citations:** 28

**DOI:** <https://doi.org/10.3390/su11195203>