

Muhammad Shoaib

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Education

University of Minho, Portugal and Politecnico Di Milano, Italy. European Master in Building Information Modelling (Erasmus Mundus Scholar)	2020-2021
National University of Science and Technology, Islamabad (NUST) Master's in Construction Engineering and Management	2013-2017
University of Engineering and Technology, Lahore (UET) Bachelor's in Civil Engineering	2008-2012

Research Experience

I have been working as a researcher at [HKSYU Real Estate and Economic Research Lab](#) at Shue Yan University Hong Kong, since 2017. Apart from that, I was the WELL Advisory team for Hotels and Resorts for [IWBI](#) to develop **Healthy-safety Rating 2020** for post-COVID built environment regulations.

The following are the links to my publications.

Publications

- [The Impact of Sustainability Awareness and Moral Values on Environmental Laws](#)
Journal: MPDI Journal of Sustainability
- [Walled Buildings, Sustainability, and Housing Prices: An Artificial Neural Network Approach](#)
Journal: MPDI Journal of Sustainability (Impact Factor= 2.576)
- [Construction Hazard Awareness and Construction Safety Knowledge Sharing Epistemology](#)
Conference paper at the University of Cambridge, UK on International Conference on Smart Infrastructure and Construction 2019 (ICSIC)

Professional Experience

WELL Exam Committee Member, WELL Advisor for Health Safety Rating **February 2020- April 2021**

- My work with IWBI is multifaceted. I am WELL Faculty since the November 2020 and conducted many sessions. I am also working as a WELL AP exam writing and review committee member since 2020. So far, I was part of the 4-exam writing and review sessions. Furthermore, I was part of the Health -safety rating 2020 committee and got WELL PTA training as well.

Sustainability and Project Management Consultant, Circle-Spaces Pvt Ltd **January 2015 – October 2020**

- Completed 60 projects in residential, commercial, hospitality, and healthcare domains per the local and international standards. Provided consultancy on 10 WELL and LEED-certified projects. Most projects are funded by international organizations like USAID, British Council, and GIZ.
- Heading Design and construction teams of diverse specialties and completed Energy modeling (Base modeling, Energy optimization, and HVAC design) and LCA studies for energy and materials credits.
- Life Cycle Analysis of Buildings using One Click LCA, Simapro, and provided consultancy to the companies to get their EPDs and HPDs based on LCA studies. Most of the products were certified through the Cradle-to-Cradle product certification process and Ellen MacArthur Foundation circular economy approach.

Proposal Reviewer, U.S. Green Building Council (Volunteer Role)

March 2018- September 2019

- My responsibility is to review and select proposals for the Greenbuild Conferences. It is a volunteer role that individuals perform after they have been selected by the USGBC. So far, I have reviewed more than 100 proposals for **Greenbuild Europe 2019, Greenbuild China 2018 and 2019, Greenbuild India 2018 and 2019.**

Facilitator Collaborative, International Living Future Institute, USA. (Volunteer Role)

June 2017- Present

- The collaborative facilitator manages all the ambassador presents in the country and conducts training for the paradigm shift in the construction industry to achieve a sustainable built environment. So far conducted training for more than 200 professionals and students. Training consists of comprehensive presentations on ILFI program environments.

UN Local Pathway Fellowship, UN-Sustainable Development Solutions Network, New York

Sep 2018 - Sep 2019

- This fellowship seeks to provide young leaders with the tools, a platform, and a guiding framework for action, and connect them with leading urban development experts and practitioners. Honored to be selected as the first-ever and only Pakistani to be selected for this prestigious fellowship.
- My fellowship [project](#) was to introduce the disability act in Lahore, Pakistan. It is about providing access to all citizens without any prejudice. On the other hand, this project was about maintaining and increasing the green cover for the city and providing access to all citizens to green spaces. The next phase of the project is to develop the digital twin for the city to monitor and evaluate the sustainability measures and the SDG's progress achieved.

Professional and Software Skills

Software: Simapro, Autodesk Revit & Navisworks, Solibri, Plannerly, Dynamo, BIMCollabZoom, eQuest, HAP, Design Builder, Python, Weka, One Click LCA.

Professional: Circular Economy, Sustainable Building Design, Lifecycle Analysis, Biophilic Design, Indoor environment quality, Building Information Modelling, Parametric and Generative Design, NetZero energy Buildings. AR/VR.

Certifications

- Circular Economy Cradle to Cradle certified Catalyst by Cradle-to-Cradle Product Innovation Institute, USA.
- LEED AP BD+C by the US. Green Building Council, USA.
- WELL AP by International WELL Building Institute, USA, (Youngest and 2nd WELL AP in Pakistan, 1ST WELL Faculty).
- Building Performance Analyst by Autodesk, USA
- Common Purpose leadership training by Commonwealth, UK
- Cradle to Cradle Catalyst by Cradle-to-Cradle Product Innovation Institute, USA.
- Sustainable Cities by SDG Academy through Edx Platform (MOOC)

International Recognitions, Honors and Awards

- Erasmus Mundus Scholarship Holder.
- 1st ever and youngest WELL Faculty and WELL Performance Testing Agent in Pakistan.
- Selected as WELL Advisor (Hotels and Resorts) for the Health-Safety Rating 2020.
- Selected as Mentor for the Local Pathway Fellowship by UN-SDSN Youth.
- Completed training on Design for Circular Economy from Cradle-to-Cradle Product Innovation Institute, USA.
- Selected for Local Pathway Fellowship by the United Nations Sustainable Development Solutions Network.
- Selected for the 19th World Festival for Youth and Students 2017 in Sochi, Russia.