

DR. MONA ABDELKADER SALEM

Assistant Professor | Postdoctoral Researcher

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BIOGRAPHY

Dr. Mona Abdelkader Salem is an Assistant Professor at the Faculty of Architecture, Design and Built Environment, Beirut Arab University, and a postdoctoral researcher at Bauhaus-Universität Weimar, Germany. With over 15 years of academic and professional experience, she specializes in sustainable architecture, architectural heritage conservation, urban sustainability, and building performance. She coordinates the Environmental and Geographic Studies Lab and the Scientific Research and Cultural Affairs Committee at the Faculty and contributes to international interdisciplinary research collaborations.

RESEARCH INTERESTS / AREAS OF EXPERTISE

Architectural heritage conservation and sustainable retrofitting of historic buildings; building physics, thermal comfort, and energy efficiency; AI-driven building performance prediction and digital twins; innovative construction materials; GIS and spatial analysis; ecological urbanism, climate resilience, sustainable urban development, and environmental design.

EDUCATION & QUALIFICATIONS

- Postdoctoral Researcher (2025–present) — Bauhaus-Universität Weimar, Germany; Building Physics Professorship and International Heritage Centre.
- Ph.D. in Architectural Engineering (2018) — Alexandria University, Egypt. Thesis: Ecological Cities: Alexandria Case Study.
- M.Sc. in Architectural Engineering (2013) — Alexandria University, Egypt. Thesis: Eco2 Cities: A New Approach for Urban Planning Development.
- B.Sc. in Architectural Engineering (2010) — Alexandria University, Egypt. Very Good+; graduation project: Egyptian Space City (Excellent, First Place).

TEACHING AREAS

Architectural design and advanced design studios; sustainable architecture and environmental design; architectural heritage conservation, restoration, and adaptive reuse; advanced conservation of historic buildings and urban heritage; building construction and technology; urban planning and design; Geographic Information Systems (GIS); environmental psychology; computer-aided drafting and design (CAD), digital modeling, and architectural visualization.

AWARDS, RESEARCH GRANTS & RECOGNITION

- 2026 — DNSC Competition: Shortlisted team and Special Mention (Team Mentor).
- 2025 — TWAS–DFG Postdoctoral Award: Research fellowship at Bauhaus-Universität Weimar, Germany.
- 2023 — DAAD Ta’ziz Partnership: Funded research project on adaptive reuse and sustainable urban transformations (Project Coordinator).
- 2023 — DAAD Ta’ziz Scientific Cooperation: Urban Acupuncture project.
- 2022 — IOP Publishing Outstanding Reviewer Award.
- 2019 — International Society for Urban Health (ISUH) full scholarship to Xiamen, China.
- 2011 — Samsung Real Dreams Award: Innovation and entrepreneurship.
- 2010 — Young Innovators Award: First Place, Egyptian Space City graduation project.