

Date: 20/09/2025



## CURRICULUM VITAE

### PERSONAL INFORMATION

Faculty Member Name: Kamal Haddad  
Academic Rank: Assistant Professor  
College: Engineering  
Department: Architectural Engineering  
Nationality: Jordanian  
Address: Al-Balqa  
Phone No:  
E-mail: K.haddad@aaau.edu.jo

### ACADEMIC QUALIFICATIONS

Degrees with fields, institution, and date

- B.Sc. in Architectural Engineering, Al-Ahliyya Amman University (2012-2017)
- M.Sc. in Computational Methods in Architecture, Cardiff University (2019-2020).

Project / theses title: Introducing an Algorithm for Computational Generation and Evaluation of School's Optimised Designs

- Ph.D. in Architecture, Cardiff University (2021-2025).

Dissertation title: Optimising the Hygrothermal and Structural Properties of Cob for Thermally Comfortable and Energy-Efficient Homes in Jordan: An Exploration Using Experimental and Computational Methods

### ACADEMIC EXPERIENCE

- Duration: 3 Years
- University: Cardiff University
- Academic Rank: Graduate Tutor
- Date the rank was granted: 2021
- The body granting the rank: Cardiff University
- College: College of Physical Sciences and Engineering - Welsh School of Architecture
- Country: United Kingdom

### NON-ACADEMIC EXPERIENCE

- Duration: 1.5 years
- Institution: Different Architectural Offices

- Department: Architectural Design and Site Supervision
- Country: Jordan

#### CERTIFICATIONS OR PROFESSIONAL REGISTRATIONS

- Jordan Engineers Association, Jordan

#### CURRENT MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Chartered Institution of Building, UK
- Chartered Institute of Building Services Engineers, UK
- Energy Institute, UK

#### HONORS AND AWARDS

- Best Research Presentation Award at the Welsh School of Architecture, Cardiff University (2025)
- Best Research Poster Award at the Welsh School of Architecture, Cardiff University (2024)
- Research Excellence Award (2024)

#### SERVICE ACTIVITIES

- Shape my street initiative in collaboration between Cardiff University and Cardiff Commitment
- Several participations in community services activities with focus on sustainability and social Justice
- Collaborations with several governmental bodies in the UK and internationally to promote sustainability within the UK and internationally

#### THE MOST IMPORTANT PUBLICATIONS IN LAST FIVE YEARS

1. Haddad, K, 2025. *Optimising the Hygrothermal and Structural Properties of Cob for Thermally Comfortable and Energy-Efficient Homes in Jordan: An Exploration Using Experimental and Computational Methods*
2. Haddad, K., Lannon, S. and Latif, E., 2025. *Exploration of thermal and structural performance of bio-stabilised cob mixes. In International Conference on Bio-Based Building Materials (pp. 439-459). Springer, Cham.*
3. Haddad, K., Lannon, S. and Latif, E., 2024. *Investigation of Cob construction: Review of mix designs, structural characteristics, and hygrothermal behaviour. Journal of Building Engineering, p.108959.*
4. Haddad, K., Lannon, S. and Latif, E., 2024. *Exploring the potential of energy savings through retrofitting traditional heritage buildings: A case study of Abu Jaber House in Al Salt, Jordan.*
5. BK, S., Haddad, K., Jafar, R. and Lannon, S., 2024. *Cooking up good air quality for better wellbeing.*

6. Haddad, K., Latif, E. and Lannon, S., 2023, June. *The state of the art of cob construction: A comprehensive review of the optimal mixtures and testing methods. In International Conference on Bio-Based Building Materials (pp. 212-231). Cham: Springer Nature Switzerland.*
7. Gin, Y., Haddad, K., Jabi, W., Shah, D.U. and Ramage, M.H., 2022, September. *Robotic 3D printing with earth: A case study for optimisation of 3D printing building blocks. In Proceedings of IASS Annual Symposia (Vol. 2022, No. 13, pp. 1-12). International Association for Shell and Spatial Structures (IASS).*

#### INSTITUTIONAL PROFESSIONAL DEVELOPMENT ACTIVITIES IN THE LAST FIVE YEARS

- Organisation of several professional development activities including conferences and symposia
- Organisation and participation of academic seminars

#### RESEARCH LINK (Scopus and Google Scholar)

- Google Scholar: <https://scholar.google.com/citations?user=vTSwoX0AAAAAJ&hl=en>
- Orcid: <https://orcid.org/0000-0003-1264-9563>
- Scopus: <https://www.scopus.com/authid/detail.uri?authorId=58318309800>

#### LANGUAGES

- English
- Arabic
- Turkish