

Date: 15/04/2026



CURRICULUM VITAE

PERSONAL INFORMATION

Faculty Member Name: Reham Alasmar
Academic Rank: Head of Architectural Engineering Department/ Assistant Professor
College: Engineering
Department: Architectural Engineering
Nationality: Jordanian
Address: Amman, Jordan
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ACADEMIC QUALIFICATIONS

Degrees with fields, institution, and date

- B.Sc. in Architectural Engineering, The Hashemite University, Jordan (2012-2017)
- M.Sc. in Architectural Engineering, The University of Jordan, Jordan (2017-2019).
- Ph.D. in Environmental Design and Engineering of Built Environment, IEDE, The Bartlett School of Built Environment, University College London (UCL) (2020-2025).

Dissertation title: Decarbonisation Pathways for the Jordanian Housing Stock Through Life Cycle Assessment and Optimisation.

ACADEMIC EXPERIENCE

- Duration: 5 Years
- University: University College London (UCL)
- Academic Rank: Postgraduate Teaching Assistant
- Date the rank was granted: 2021
- The body granting the rank: UCL
- College: Institute for Environmental Design and Engineering (IEDE), The Bartlett School of Built Environment
- Country: United Kingdom

- Duration: 2 Years
- University: University College London (UCL)
- Academic Rank: Subsidiary supervisor for MSc Students
- Date the rank was granted: 2023
- The body granting the rank: UCL

دائرة الموارد البشرية
Human Resources Department

- College: MEng and IEDE, The Bartlett School of Built Environment
Country: United Kingdom
- Duration: 1.5 Years
- University: University College London (UCL)
- Academic Rank: Ethics Applications Reviewer, MSc dissertations
- Date the rank was granted: 2024
- The body granting the rank: UCL
- College: MEng and IEDE, The Bartlett School of Built Environment
Country: United Kingdom
- Duration: 2 Years
- University: University College London (UCL)
- Academic Rank: Postgraduate Teaching Assistant
- Date the rank was granted: 2023
- The body granting the rank: UCL
- College: Energy Institute, The Bartlett School of Built Environment
Country: United Kingdom
- Duration: 1 Year
- University: Al-Zaytoonah University of Jordan
- Academic Rank: Lecturer
- Date the rank was granted: 2020
- The body granting the rank: Al-Zaytoonah University of Jordan
- College: School of Architectural Engineering
Country: Jordan

NON-ACADEMIC EXPERIENCE

- Duration: 3 years
- Position: Research Leadership - Deputy Research Theme Leader/ Life Cycle Assessment and Circular Economy
- Institution: University College London (UCL)
- Department: Institute for Environmental Design and Engineering (IEDE)
- Country: London, United Kingdom
- Duration: 1 year
- Institution: UK National Trust and University College London (UCL)
- Position: Knowledge Exchange Assistant, Research Assistant
- Department: Institute for Environmental Design and Engineering (IEDE)
- Country: United Kingdom

CERTIFICATIONS OR PROFESSIONAL REGISTRATIONS



- UK higher Education Fellowship, Fellow Higher Education Academy (FHEA), UK
- Elsevier Peer-Review Certificate
- Jordan Engineers Association, Jordan

CURRENT MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Chartered Institute of Building Services Engineers (CIBSE), UK
- Editorships: Editorial Board Membership, American Journal of Civil Engineering, Lead Guest Editor

HONORS AND AWARDS

- Most Effective Delivery of Material Award, CIBSE ASHRAE Technical Symposium (2023)

SERVICE ACTIVITIES

- Invited Speaker -Guest speaker, Embodied Carbon and Life Cycle Assessment (UCL Staff) (2025)
- Invited Speaker -Guest lecturer, Embodied Carbon and Life Cycle Assessment (UCL Students) (2024)
- Invited Speaker -Guest lecturer, Building Tomorrow: Sustainable Design Unveiled, The Bartlett School of Architecture, UCL (2023)
- External examiner – Architectural design graduation projects at the School of Architecture/ University of Jordan (2020)

THE MOST IMPORTANT PUBLICATIONS IN LAST FIVE YEARS

- *Peer-reviewed journal papers:*

1. *Merve Anaç, Reham Alasmar, Merve Karabeyeser Bakan, Gülden Gümüşburun Ayalp, Multi-objective optimisation of energy use and cost in a residential building retrofit, Results in Engineering, Volume 29, 2026, 109343, ISSN 2590-1230, <https://doi.org/10.1016/j.rineng.2026.109343>.*
2. *Alasmar R, Schwartz Y, Burman E. Developing a Housing Stock Model for Evaluating Energy Performance: The Case of Jordan. Energy & Buildings 308 (2024) 114010.*
3. *Alasmar R, Schwartz Y, Burman E. Developing a Housing Stock Model for Evaluating Energy Performance: The Case of Jordan. Energy & Buildings 308 (2024) 114010.*
4. *Alasmar R, Karabeyeser M, Anaç M. Evaluating the Effect of Adaptive Reuse on Energy Performance of Historic Buildings: A Case Study from Türkiye. Heritage Journal, MDPI, (2024).*

5. Alasmar R, Schwartz Y and Burman E. A Statistical Analysis of the Energy Performance Characteristics for the Residential Building Stock in Jordan, *Journal of Building Design and Environment*, 2023;2(2):16335. Proceedings of the 5th International Conference on Building Energy and Environment, 978-981-19-9823-2. <https://doi.org/10.37155/2811-0730-0201-8>
6. Alasmar R, Schwartz Y, Burman E. Identifying the Pathways Toward Zero Operational and Embodied Carbon Emissions for the Housing Stock in Jordan. <https://doi.org/10.1007/978-981-19-9822-5>
7. Abbas KA, Gharavi A, Hindi NA, Hassan M, Alhosin HY, Gholinezhad J, Ghoochaninejad H, Barati H, Buick J, Alasmar R, et al. Unsupervised machine learning technique for classifying production zones in unconventional reservoirs *International Journal of Intelligent Networks* 4:29-37 2023 (Journal article) Publisher URL IAENG International Journal of Applied Mathematics 53 (Mar. 2023) pp. 113–121. 2023
8. Gharavi A, Abbas KA, Hassan MG, Haddad M, Ghoochaninejad H, Alasmar R, Al-Saegh S, Yousefi P, Shigidi I, Unconventional Reservoir Characterization and Formation Evaluation: A Case Study of a Tight Sandstone Reservoir in West Africa, 2 Nov 2023 *Energies*16(22) MDPI AG.
9. Alasmar R. Philosophy and Perception of Beauty in Architecture, *American Journal of Civil Engineering* 7(5):126-126 2019 (Journal article). View here: *The Role of Jordan Hijaz Railway Development in Community Support and Tourism / A Paradox through Urban Options | Global Journals of Research in Engineering* (engineeringresearch.org)

- Peer Reviewed Books – Book Chapter:

1. Yair Schwartz, Reham Alasmar, Ben Croxford, Craig Robertson, Eleni Davidson, Simon Baird Vakeva, Merve Karabeyeser, Seyma Atik, Sahar Nava, Marios Kordilas. *Life Cycle Analysis & Circular Economy: A growing research theme. 60 Years of The Bartlett Institute for Environmental Design and Engineering. 60 Years of The Bartlett Institute for Environmental Design and Engineering | Bartlett Faculty of the Built Environment, 2025.*

- Peer-reviewed Conference papers:

1. 2024 IBPC, International Buildings Physics Conference, Canada, Alasmar, R., Schwartz, Y., & Burman, E. Predicting the Impact of Climate Change on

- Operational Carbon Emissions and Thermal Comfort in the Housing Stock of Jordan.*
- 2024 *SimBuild, Eleventh National Conference of IBPSA-USA, USA, Alasmar, R., Schwartz, Y., & Burman, E. An Evaluation of Embodied Carbon Emissions of Building Materials in Jordanian Dwellings.*
 - 2023 *WSED, World Sustainable Energy Days. Austria, Alasmar, R., Schwartz, Y., & Burman, E. A Review of the Methodology Developed to Investigate CO2 Emissions of the Housing Stock in Jordan.*
 - 2023 *CIBSE ASHRAE Technical Symposium Scotland, Alasmar R, Schwartz Y, Burman E. Evaluation of Energy Performance of The Most Prevalent Housing Archetypes in Jordan.*
 - 2022 *5th, International Conference on Building Energy and Environment (COBEE 2022) Canada, Alasmar R, Schwartz Y, Burman E. Identifying the Pathways Toward Zero Operational and Embodied Carbon Emissions for the Housing Stock in Jordan.*
 - 2021 *SR Congress, International Science and Research Congress Turkey Alasmar R, Al-Fayyumi O., An Application of Water Harvesting Façade Technology for Commercial Buildings/ The Case of Amman.*

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: [reham alasmar - Google Scholar](#)
- Orcid: [Reham Alasmar \(0000-0002-2450-7485\) - ORCID](#)
- Scopus: [Alasmar, Reham - Author details - Scopus](#)
- ResearchGate: [Reham Alasmar](#)

LANGUAGES

- English
- Arabic