

Hashem Alsibai

Architect · Urban Researcher · Turin — Geneva

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scholar.google.com/citations?user=1gu7sV8AAAAJ

CURRENT POSITION

Research Lead

HEPIA — Haute école du paysage, d'ingénierie et d'architecture · Geneva, Switzerland · 2024 – 2026

Designing governance frameworks for multi-actor infrastructure systems. Leading research on the UN district energy transition in Geneva. Building system-level models for positive energy districts integrating policy, infrastructure, and stakeholder dynamics.

PhD Candidate — Architecture & Urban Regional Development

Politecnico di Torino · DIST · Turin, Italy · 2022 – 2026

Thesis: "Post-carbon cities and energy communities: Stacked Urban Energy Precincts for low-carbon pathways." Defending March 2026.

EDUCATION

2022 – 2026 PhD — Architecture & Urban Regional Development

Politecnico di Torino · DIST · Turin, Italy

Thesis: "Post-carbon cities and energy communities: Stacked Urban Energy Precincts for low-carbon pathways"

2019 – 2021 Master — Architecture · Honours List

Sapienza University of Rome · Rome, Italy

Thesis: "Urban resynchronization: case of Rome"

2014 – 2019 Bachelor's — Architectural Engineering · Honours List

University of Sharjah · Sharjah, UAE

Thesis: "Dynamic Souq: An environmental passive design strategy"

EXPERIENCE

2023 – 2024 Urban Planner — Climate & Environment

Municipality of Turin · Italy

Analysed city-scale energy systems to support policy on renewable energy communities in public buildings. Contributed to EU-funded urban transition projects.

2022 – 2024 Researcher — Environment & Energy

University of Turin — Green Office · Italy

Built GIS-based models of energy consumption and renewable potential across institutional assets. Co-author of the integrated UniTO solar BIM evaluation.

2021 – 2022 Researcher — Urban Policy & Systems

Sapienza University of Rome · Italy

Investigated socio-spatial dynamics and governance frameworks in Italian urban systems.

2023 – **Young Ambassador**

International Forum on Urbanism (IFoU) · Singapore

Strengthening international collaboration in urbanism between governmental and professional institutions.

2015 – 2018 **Project Architect**

Amada Building Contracting · Sharjah, UAE

Project development, design, quality control, and site management.

PUBLICATIONS

- 2026 **Post Carbon Cities and Renewable Energy Communities: Stacked Urban Energy Precincts for low-carbon pathways.** Alsibai, H. Politecnico di Torino, pp. 1–213.
- 2024 **Post carbon cities: A geospatial assessment for the solar potential of Turin.** Alsibai, H. Urbanistica Informazioni, vol. 317, pp. 101–106.
- 2024 **Solar Potential and RES Evaluation into UniTO's Digital Asset Management System for Sustainable Campus Development.** Alsibai, H.; Gasbarri, P.; Boscariol, M.; Meschini, S.; Tagliabue, L.C.; Dansero, E.; Tartaglino, A. pp. 136–145.
- 2022 **La Comunità energetica rinnovabile del pinerolese. Un esempio di best practice.** Mutani, G.; Santantonio, S.; Usta, Y.; Beltramino, S.; Alsibai, H. NU Edizioni, pp. 117–119.
- 2021 **Design optimization via CFD modeling to promote natural ventilation strategies in a prototype house.** CFD analysis adapting building morphology to wind-driven ventilation strategies.
- 2020 **Shaping the microclimate: CFD-assisted design optimization to enhance the outdoor comfort of a recreational complex in the UAE.** Belpoliti, V.; Altan, H.; Alsebai, H.; Melahfci, O. Procedia Manufacturing, 44, pp. 84–91.

TEACHING

- 2025/2026 **Digital innovation in living environments**
Tutor · University of Torino
- 2023/24 – 2024/25 **Green building design B**
Tutor · Modulo di Architectural and Urban Design · Politecnico di Torino
- 2023/24 – 2024/25 **City and territory Studio B**
Tutor · Modulo di Architectural and Urban Design · Politecnico di Torino
- 2022/2023 **Post-carbon sustainable communities (Atelier)**
Tutor · Modulo di Energy Transition and Energy Modeling · Politecnico di Torino
- 2021/2022 **Rehabilitation and urban regeneration — Studio**
Co-Tutor · Sapienza University of Rome

AWARDS & FELLOWSHIPS

- 2025 Astra Fellowship Candidate
- 2023 – Young Ambassador · International Forum on Urbanism (IFoU)
- 2022 – Member · American Association of Geographers (AAG)
- 2022 – Member · Green Office, University of Turin (UniToGO)
- 2021 Honours — Master of Architecture · Sapienza University of Rome
- 2019 Honours — Bachelor of Architectural Engineering · University of Sharjah
- 2018 Top Design Award — Solar Decathlon Middle East · Dubai, UAE

ACADEMIC EVENTS

- 2025 Congress of the American Association of Geographers · Detroit, USA
- 2024 19th International 3D GeoInfo Conference · Vigo, Spain
- 2024 AESOP Young Academics Conference · Milan, Italy
- 2021 8th ZEMCH International Conference · Dubai, UAE
- 2019 International Conference on Optimization-Driven Architectural Design (OPTARCH 2019) · Amman, Jordan

LANGUAGES

Arabic Native

English C2

Italian B1

French A1