

Ehsan Rostami

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EDUCATION

Master of Science in Architecture and Energy <i>University of Ilam</i>	<i>2019-2022</i> Ilam, Iran
<ul style="list-style-type: none">○ Thesis: <i>The effects of heterogeneity in the layout and density of urban blocks on the daylight availability and energy efficiency of buildings</i>○ GPA: 18.69/20 (3.92/4)○ Advisor: Dr. Nazanin Nasrollahi	
Bachelor of Science in Architecture Engineering <i>University of Ilam</i>	<i>2012-2016</i> Ilam, Iran
<ul style="list-style-type: none">○ GPA: 16.94/20 (3.62/4)	

PUBLICATIONS

Research Papers

- Rostami, E., & Nasrollahi, N. (2025). *The impact of urban morphology on sunlight availability at urban and neighborhood scales: A systematic review*. Sustainable Cities and Society, 121, 106194. <https://doi.org/10.1016/j.scs.2025.106194>
- Rostami, E., Nasrollahi, N., & Khodakarami, J. (2024). *A comprehensive study of how urban morphological parameters impact the solar potential, energy consumption, and daylight autonomy in canyons and buildings*. Energy and Buildings, 305, 113904. <https://doi.org/10.1016/j.enbuild.2024.113904>
- Nasrollahi, N., & Rostami, E. (2023). *The impacts of urban canyons' morphology on daylight availability and energy consumption of buildings in a hot-summer Mediterranean climate*. Solar Energy, 266, 112181. <https://doi.org/10.1016/j.solener.2023.112181>

RESEARCH PROJECTS

- **EPW Insights - Interactive Climate Data Analysis Platform (2024-2025)**
comprehensive web application for analyzing EnergyPlus Weather files through interactive visualizations including psychrometric charts, solar radiation analysis, wind rose diagrams, and comparative climate studies, enabling researchers and practitioners to explore weather data patterns and building performance implications.
- **Grasshopper Urban Morphology Toolkit (2021-2022)**
Developed in collaboration with Dr. Nazanin Nasrollahi at University of Ilam: Custom Grasshopper algorithms automating urban morphology parameter extraction and analysis, leading to findings published in Energy and Buildings journal.
- **Mobile Measurement Method for Urban Microclimate Analysis (2021)**
Developed under supervision of Dr. Nazanin Nasrollahi at University of Ilam for master's thesis: A mobile measurement methodology using calibrated portable sensors to collect comprehensive microclimate data, revealing correlations between urban morphology, solar potential, and thermal comfort in Ilam, Iran.
- **3D Urban Modeling without GIS Data (2021)**
Created as part of master's thesis research at University of Ilam: A high-fidelity 3D model of approximately 2,500 buildings in Ilam's urban core enabling detailed solar potential and energy consumption simulations in areas lacking GIS resources.

HONORS & AWARDS

- Best Graduate Student Issued by Ilam University (Nov 2022)

ACADEMIC CONTRIBUTIONS

Peer Reviewer

- Conducted peer reviews for high-impact journals, including *Energy and Buildings*, *Building and Environment*, *Frontiers of Architectural Research*, and *Journal of Housing and the Built Environment*, contributing to advancing energy and architectural research.

2023-2025

RELATED COURSES

Graduate

- Energy and Architectural Design
- Energy and Urban Design
- Passive and Active Systems
- Measurement Systems and Optimizing of Existing Buildings
- Heat Transfer
- Energy Analysis
- Energy Management

Undergraduate

- Architectural Design
- Urban Space Planning
- Urban Space Design
- Restoration of Monuments
- Rural Research & Design
- History of Architecture
- Construction Project Management
- Building Construction
- Surveying
- Environmental Control of Building
- Building Technical Design
- Building Mechanical Services
- Strength of Materials and Steel Structures
- Reinforced Concrete Building Design

Online Courses

- Nature-based Solutions for Disaster and Climate Resilience (Apr 2025)
- Sustainable Cities (Jun 2023)
- Contemporary arts and communication (Jun 2022)
- Solar Energy for Engineers, Architects, and Code Inspectors (May 2022)
- Global Energy and Climate Policy (Dec 2021)
- Autodesk Certified Professional: AutoCAD for Design and Drafting Exam Prep (Nov 2021)
- BIM Application for Engineers (Nov 2021)
- Autodesk Certified Professional: Revit for Architectural Design Exam Prep (Oct 2021)
- Design Computing: 3D Modeling in Rhinoceros with Python/Rhinoscript (Oct 2021)
- Renewable Energy and Green Building Entrepreneurship (Oct 2021)

SKILLS

Programming and Web Development Skills

- Python, R, PHP, JavaScript (ES6+), D3.js, HTML5, CSS3, Bootstrap

Building and Urban Performance Simulation/Analysis

- EnergyPlus, Ladybug Tools, Pollination, OpenStudio, ClimateStudio, UMI, DIALux, DesignBuilder, Envi-Met, RayMan, ArcGIS, CitySim

2D/3D Modelling and BIM

- Rhinoceros 3D, Grasshopper 3D, Revit Architecture, Autodesk Navisworks, 3Ds Max/VRAY, Lumion, SketchUp, AutoCAD

Non-Engineering Software Skills

- IBM SPSS Statistics, Adobe Photoshop, Microsoft Project, LaTeX, EndNote

Language

- Kurdish: Native ○ Persian: Native ○ English: Professional working proficiency

REFERENCES

- Available upon request.