

# Ehsan Rostami

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## EDUCATION

### Master of Science in Architecture and Energy

2019-2022

University of Ilam

Ilam, Iran

- **Thesis:** *The effects of heterogeneity in the layout and density of urban blocks on the daylight availability and energy efficiency of buildings*
- **GPA:** 18.69/20 (3.92/4)
- **Advisor:** Professor Nazanin Nasrollahi

### Bachelor of Science in Architecture Engineering

2012-2016

University of Ilam

Ilam, Iran

- **GPA:** 16.94/20 (3.62/4)

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## PUBLICATIONS

- 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>

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## RESEARCH PROJECTS

- **EPW Insights - Interactive Climate Data Analysis Platform (2024-2025)**  
*A comprehensive web application for analyzing EnergyPlus Weather files through interactive visualizations, enabling climate data exploration for building performance analysis (Project Link: <https://ehsan-rostami.github.io/epw-insights>).*
- **Grasshopper Urban Morphology Toolkit (2021-2022)**  
*Developed in collaboration with Professor 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 Professor 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*

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## 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

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## HONORS & AWARDS

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

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## 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
- Rural Research & Design
- Construction Project Management
- Reinforced Concrete Building Design
- Building Construction
- Surveying
- Environmental Control of Building
- Building Technical Design
- Building Mechanical Services
- Strength of Materials and Steel Structures

### Online Courses

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

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## 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, Optimization Algorithms (Genetic & Multi-objective), DesignBuilder, Envi-Met, RayMan

### 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: Mother tongue
- Persian: Native
- English: Proficient

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## REFERENCES

- Available upon request.