

Curriculum Vitae



HASTI
BEYKPOUR

Architect, Researcher



Tehran-Iran



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I'm a multidisciplinary researcher in the built environment field, focusing on Human-Building Interaction (HBI). I integrate insights from cognitive and neuroscience to address human well-being as a whole through salutogenic and Human-Centered design. Through data-driven meta analysis, I investigate how IEQ factors like thermal and visual comfort, indoor air quality and noise pollution effect human behavior and overall health. My goal is to advance evidence-based approaches for creating Enriched and Health-Promotive built environments which tailored to human needs.

Research Interests: Comfort and well being, HCD, Neuroarchitecture, Occupant behavior, Data analysis

Education

2023-2025

International University of Qazvin

Master- Energy and Architecture (Grade: 4/4)

Thesis: Design Beyond Comfort A pilot study about the critical role of ambient temperature on quality and duration of sleep in built environment

2019-2023

Shahid Chamran University of Ahvaz

Bachelor- Architecture (Grade: 4/4)

Thesis: Vernacular and context - sensitive design of an ecotourism accommodation.

Teaching Assistance

Prof. Maryam Azmoodeh

In following courses:

- Energy simulation software (2025)
- Sustainable Architectural Design (2025 - 2026)

Programming Language

Python (proficiency)

- **Thermal & Environmental Analysis:**

pythermalcomfort, Ladybug Tools API, Eppy

- **Machine Learning & Deep Learning:**

scikit-learn, TensorFlow, Keras, PyTorch

- **Optimization & Simulation:**

SciPy, pymoo, gekko

- **Data Analysis & Visualization:**

pandas, NumPy, Matplotlib, Seaborn

- **Eye-tracking Data Analysis:**

PyGaze, PupEyes, PyTrack

- **Neuro/EEG Data Analysis:**

MNE-Python, NeuroKit2, EEGLAB (MATLAB, integration experience)

R (Basics)

Courses & Certifications

MIT

- Sustainable Building Design (Certificate)
- Transformative Living Labs in Urban Climate Action and Transportation Planning (Certificate)
- Energy Economics and Policy (Certificate)
- Sustainable Energy (Certificate)

TU Delft

- Façade design and engineering: complexity made simple (Certificate)
- Zero-Energy Design: an approach to make your building sustainable (Certificate)
- Comfort and Health in Buildings (Certificate)

National University of Singapore

- Data Science for Construction, Architecture and Engineering (Certificate)

Hormozgan University of Medical Sciences

- Diploma in Cognitive Neuroscience - Based on Gazzaniga's Reference (Certificate)

University of Tehran

- High-Performance Building Design Workshop (Certificate)

Iranian University of Science and Technology

- ENVI-met Software in Building and Environmental Design (Certificate)

Shiraz University - College of Arts and Architecture

- Neuroarchitecture summer Bootcamp (Certificate)

Iranian Biology Society

- Symposium on AI Applications in EEG and QEEG Data Analysis (Certificate)

EHIA

- NeuroSchool - Interdisciplinary Neuroscience Course (Certificate)
- Computational Neuroscience

Iranian Academy of Neuroscience

- The Role of Neuroscience Achievements in Contemporary Life (Certificate)

DigitalFUTURES

- Smart Facades: From Building Envelopes to Living Skins (Certificate)

Elsevier Researcher Academy

- Fundamentals of manuscript preparation Fundamentals of manuscript preparation (Certificate)



Publications

Conference Papers

- **Beykpour, Hasti, 2024**, Approach to the sustainable and car free cities (in English) : NEFAR Magazine, Babol, Iran - [link](#)

Journals

- Abedi, S. , **Beykpour, H.** and Gorji Mahlabani, Y. (2024). The impact of Xwoun patterns on the heat transfer of the surrounding walls of buildings in hot and dry climates.. Journal of Sustainable Architecture and Urban Design, 12(2), -. [doi: 10.22061/jsaud.2025.10751.2216](#)

Software

Architectural Design & Drafting

- AutoCAD (2D/3D) (Advanced)
- Revit Architecture (Advanced)
- Rhinoceros (Intermediate)
- Grasshopper (Intermediate)

Building Performance Simulation & Environmental

Analysis

- DesignBuilder (Advanced)
- Ladybug Tools (Advanced)
- Envi-Met (Advanced)
- ClimateStudio (Intermediate)
- EnergyPlus & OpenStudio (Intermediate)
- Optics & Window (LBNL) (Advanced)
- CBE Thermal Comfort Tool (ASHRAE 55) (Advanced)
- ClimaPlus (Advanced)
- Insight 360 plugin (Advanced)
- AftabRad plugin (Intermediate)

Visualization & Rendering

- Enscape (Advanced)
- Lumion (Advanced)
- Unreal Engine (VR/AR) (Intermediate)

Graphical Presentation and Diagramming

- EdrawMax (Advanced)
- Photoshop (Advanced)
- Illustrator (Intermediate)
- Microsoft office package (Intermediate)

Data Analysis and Optimization

- Python (Advanced)
- Spss (Intermediate)
- R (Basic)
- Wallacei (Intermediate)
- TTtoolbox (Advanced)
- Octopus (Intermediate)
- Colibri (Advanced)
- Tunny (Intermediate)

Research & Reference Management

- EndNote (Advanced)
- Zotero (Intermediate)
- Research Rabbit (Advanced)

Language Skills

• Farsi

Native proficiency

• English

Professional working proficiency

• Arabic

Limited working proficiency

• German

Limited working proficiency

• Japanese

Elementary proficiency

Experience

November 2024 - Present (11 months)

Occupational Sleep Research Center, TUMS

Researcher in sleep and thermal comfort

Tehran Province, Iran

September 2021 - January 2022 (5 months)

Center for Architecture and Environmental Planning Research, Southwest Iran

Architectural Researcher

Ahwaz, Khuzestan Province, Iran

February 2021 - October 2021 (9 months)

ARVAND FREE ZONE ORGANIZATION _Gateway Project_

Architect and Designer

Abadan, Khuzestan Province, Iran

April 2020 - December 2020 (9 months)

Om-ol-Banin Technical School

Architecture Instructor

Ahwaz, Khuzestan Province, Iran

November 2019 - March 2020 (5 months)

Form o Faza Architecturs company

Architectural Designer

Ahwaz, Khuzestan Province, Iran

Professional Memberships

- Iranian Architecture and Energy Association member
- International Energy Agency (IEA) -Research member in activity 4.1.3 (sleep / energy poverty / urban heat and resilience)
- Neuroarchitecture Summer Bootcamp Network participant

Academic Vision

I aspire to shape the built environment into a setting that actively supports human life and flourishing. Beyond efficiency and performance, I see buildings as catalysts for longer, healthier, and happier lives—places that nurture comfort, well-being, and resilience and people can truly thrive.