




Fahimeh Dokhanian

*building environmental sustainability
and LCA analyst*



Interested and specialized in research work in the field of sustainability, life cycle assessment (LCA), life cycle cost (LCC), life cycle energy assessment (LCE), environmental performance, and energy efficiency with a focus on modeling various systems: building materials, building components, and passive strategies. Specialized in bioclimatic design and environmentally responsive actions, with a focus on simulation and optimization of building energy. Interested in collaborative work and cooperation with organizations in the field of energy optimization and the circular economy (CE) domain.

CONTACT

-  Fahimeh.d.fd@gmail.com
-  Fahimeh Dokhanian
-  @Fahimeh_dkh
-  Tehran, Iran

EXPERIENCE

● 2017 - 2019

Freelance Architect

- While continuing my graduation program at the university, I worked as a freelancer in some companies. My biggest contribution at that time was to a small company namely Azhand Co.
- After gaining experience as a freelancer, I tried my fortune to apply for a job in an architecture company as a junior architect. I gained many experiences there, particularly in the area of interior and exterior design and city planning.

● 2019

Residential design using passive systems and energy efficiency in Semnan

● 2020

Participation in Zero Energy California library design competition

● 2020

Participation in the creative school design competition in the context of sustainable culture and climate

● 2021

University project

- Redesign of neighborhood in Tabriz city, with the approach of improving energy efficiency and providing thermal comfort according to the climate.

● 2022

University project

- 3E evaluation(Energy, Environment and Economy) and optimization of external walls of secondary school in Sabzevar during life cycle.

EDUCATION

2022

• **Master of Science – Energy and Architecture**

University Of Hakim Sabzevari, Sabzevar, Iran

Thesis title: "Choosing the Optimal Shading in the Life Cycle of an Educational Building Based on Three Factors of Energy Consumption, Greenhouse Gas Emissions and Cost, Case Study: Sabzevar"

Supervisor: Dr. Hassan Estaji

2018

• **Bachelor of Science – Architecture**

Semnan university, Semnan, Iran

Final project: "The Center of Children Familiarity with Nature"

Supervisor: Hoda Alavi Tabari

SKILLS

Architectural Design

100%

Graphical Design

85%

Sustainable Design

85%

Energy Efficiency

95%

Light and Energy Modeling

95%

Life Cycle Assessment (LCA)

90%

Circular Economy (CE)

60%

Energy Optimization

85%

TEACHING EXPERIENCE

2024

- **Life Cycle Assessment(LCA) Course**

Collaboration with UpgreenGrade Team, specializing in the fields of energy analysis and building lighting.

In this course, comprehensive concepts and foundations of lifecycle assessment, frameworks, standards, and methodologies have been taught.

2023

- **Comprehensive Climate Analysis Course**

Collaboration with UpgreenGrade Team

In this course, all topics related to climate, including climatic factors, climate data and files, climate change analysis, and optimization, are taught in an online platform.

2022

- **Comprehensive site Analysis Course**

Collaboration with UpgreenGrade Team

In this online course, topics such as accessibility, energy efficiency, solar energy, shading analysis, wind, topography, and optimization using tools like Depth map, Ladybug Tools, and online websites are taught.

PUBLICATIONS

- Shading design optimization in a semi-arid region: Considering energy consumption, greenhouse gas emissions, and cost., <https://doi.org/10.1016/j.jclepro.2023.139293>.
- Comparative life cycle assessment of different external wall of rural houses in hot-arid climate (under review)
- Geospatial Distribution of Qanats in Middle Eastern Countries: Potential for Sustainable Groundwater System <https://doi.org/10.1016/j.jaridenv.2024.105170>.

SOFTWARE SKILLS



Revit



Ladybugtools



Energy plus



JE Plus



One click LCA



Open LCA



Design builder



Dragonfly



Illustrator



photoshop



Wallacei



Python

2022

Department of Hakim Sabzevari University

- designing the shell of the administrative building of Hakim Sabzevari university Culture House with the approach of reducing energy consumption.

2023

Training course

- Teaching a comprehensive course on climate analysis in collaboration with UpGreengrade Group

2023

Iranian Construction Engineering Organization

- Iranian Construction Engineering Organization certification in two fields: architectural design and architectural supervision

COURSES

2022

Regenerative Architectural

2021

Optimizing energy and light in the building using Grasshopper pugins

2021

Assessing the life cycle and carbon emission of building using One-click LCA

2021

Assessing the life cycle and work with Open-LCA software-Amirkabir university

2021

Building energy simulation using Ladybug -tools plugin

2021

Python programming language in the Grasshopper

LANGUAGE

Persian(Native)

100%

English

70%