

HODA ESMAELIAN TOUSSI

PhD in Architecture

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Faculty of Architecture, Nicosia, Cyprus.

Profile

I am an experienced architect with a solid research background, industry and teaching experience, especially in subjects of sustainable and evolutionary architecture for a period of almost 8 years. Enhancing the practical significance of research, novelty, and innovation are my top priorities on a research path.

Education and training

PhD in Architecture

- Date (2013-January 2019)
- Name and type of organisation
- Thesis title and objective

Faculty of Art & Architecture, Islamic Azad university, Science & research branch, Tehran, Iran

"Generative evolutionary architecture, the application of genetic algorithm in the challenge of continuity and change in architecture"

The main objective of this research is to "achieve and generate optimal creative forms which are analogous to its context by the means of **shape grammar, generative approach, genetic algorithm, and evolutionary optimization technique**".

- Principal subjects
- Title of qualification awarded

Climatology and architecture, common language of Architecture and fine arts, Methods of Architectural training and schools, Contemporary architecture of Iran, Architecture & nature, Architecture and modern energies, Comprehensive exam.

PhD degree in Architecture

Total GPA: 19.12/20 * (21 credits) Thesis grade: 19.5/20

M.Sc. in Architecture

- Date (2008-2011)
- Name and type of organisation
- Thesis title and objective

Dept. of Architecture and Urban Design, Iran University of science and Technology, Tehran, Iran

"Designing Concept of Neighbourhood civic spaces based upon social sustainability approach", Case study EVIN, Tehran

The main purpose of the research is "to analyse and apply the principles of social sustainability approach, by literature review on sustainability and community development, into demonstrating the designing concepts for the creation of dynamic, harmonious neighbourhood civic centre which can promote the social performance and fully respond to the qualitative and quantitative needs of the residents."

- Principal subjects
- Title of qualification awarded

Architecture (Specialized in Cultural Educational Spaces), 3 studio design, research methods in architecture, history and theory in architecture,

Master of science, **(Ranked first with highest honours)**

Total GPA: 18.82 /20*·thesis grade: Grade: 19.75 /20

Bachelor

- Date (2002-2007)
- Name and type of organisation
- Thesis title

Azad University of Mashhad, Iran

"Designing residential-commercial complex based upon revitalisation principles and patterns of a neighbourhood context", case study, Mashhad, Iran

publications

Esmailian, Hoda, Etesam, Iraj, Mahdavinejad, Mohammadjavad "The application of "evolutionary algorithm" and shape grammar method in the design process based upon traditional structures".

2019, Submitted in Bagh-e-Nazar, ISSN 1735-9635, www.bagh-sj.com

Esmailian, Hoda, Etesam, Iraj, "Architectural analysis of industrial heritage with the application of typology and shape grammar methods. Case study: Isfahan and Yazd textile factories of Pahlavi dynasty"

ISSN: 2538-2594; Naqshejahan- Basic studies and New Technologies of Architecture and Planning. 2019;9(1):1-12

Esmailian, Hoda, Mardomi, karim "Designing Measures to Achieve Socially sustainable Neighborhood".

Submitted in 2011 by Soffeh, the Journal of Architectural Science and Research, Tehran, Iran, ISSN: 1683-870X

Esmailian, Hoda, Mardomi, karim "Social Sustainability Pivotal Role in Designing Neighborhood".

Submitted in 2011 by Armanshahr Architecture & Urban Development Journal, ISSN: 2538-2365, Website:

<http://www.armanshahrjournal.com/?lang=en>

Esmailian, Hoda, Mardomi, karim "Sustainable Architecture Design Strategies and Environmental Ethics".

Submitted in 2011 by Memar magazine, Tehran, Iran

Lectures and presentations

"Architecture workshop on the topic of **Persian Traditional Houses**" as one of the main speakers, Tabriz, Iran, February 2010

"Architecture workshop on the Topic of **Sustainable Settlements**" as one of the main speakers Shiraz, Iran, May 2011

"Architecture workshop on the Topic of **Green Architecture**" as one of the main speakers Ahvaz, Iran, May 2011

"Architecture workshop on the Topic of **Contemporary Architecture of Iran**" as one of the main speakers, Nur, Iran, June 2011

"Design Workshop on the Topic of **Design and conviviality**," as one of the main speakers Royan, Iran 24/28 August 2014

Teaching experience

- Date (February 2020 – ongoing)

Full-time lecturer

- NEU university, faculty of Architecture, Cyprus

Teaching "Basic Design 2, Descriptive geometry, construction, Rhinoceros"

- Date (2010 – 2011)

Lecturer and teacher assistant

- Azad University of ShahreQods, Tehran,

Teaching "Islamic Architecture", Department of architecture, Semester 2, 2010

Teaching "English for the Students of Architecture" Department of architecture, Semester 2

- Date (2011 – 2012)

Lecturer and teacher assistant

- Azad University of Shiraz, Shiraz

Teaching assistantship of "Studio Design I" course conducted by Prof. Farhad Ahmadi with the main approach on green design, revitalization and gentrification, entitled "**Revitalization of Shiraz riverside as a green public space**"

Teaching assistantship of "Studio Design II" conducted by Prof. Farhad Ahmad with the main approach on gentrification and revitalization of urban spaces entitled "**Designing an urban cultural axis in Shiraz**"

Work experience

- Date (2015 – January 2020)
- Name and address of firm
- Type of business
- Responsibilities

- Date (2011 – 2015)
- Name and address of firm
- Type of business
- Responsibilities

Language certifications

- GRE
- Certifications of language knowledge

Research skills

Organisational skills

Technical skills

Artistic skills

Detail designer- Architect supervisor

ALUMIN SAZE PARS company, Reg. No.222088. No.3. 9th floor, NEGAR tower, NEGAR street, VANAK square, Tehran, Iran

Facade construction

- Detail designing and drawing as-built documents for building's facade installation
- Supervising the installation process at construction sites
- Coordination between architects, engineers, and providing clients with required documents

Architect- Architect supervisor

DORANSHAHR Engineering and Architectural Consultant, Reg.NO.192747, No. 10, North Qeytariyeh, Tehran, Iran

Architectural firm

Architect supervisor at:

- Iran University of Science and Technology Central Library project,
- Restoration and Revitalization Plan of AmirSoleimani Historical Garden project,
- member of designing team at Padideh Kish master plan Competition,
- Designing Residential Tower, Tehran, as a designer
- Designing villa complex, Chilak touristic village, Iran, as a designer

Verbal Reasoning 143, Quantitative Reasoning 150, Analytical Writing, 3.0

TOEFL, score:110 (10, 01, 2015)

IELTS, score 8.0 [2010] general module, score 8.0 [2019]

I have been involved with research activities for almost 8 years as a master and PhD student and I always seek the novel issues, try to be innovative and dig deeply into a research topic. During my PhD thesis research, I have studied and analysed almost 200 ISI articles of the recent 4 years prior to choose the method.

As an architect supervisor, I had the responsibility of coordinating the architectural team in a construction site, reviewing the documents and preparing a weekly report for the client. Also, managing the enhancement of work with the time schedule assists me through learning time management and coordinating a team. As I have work experiences at architectural firms for nearly 7 years, I believe that I can interact well with others, respect and cooperate fully as a team member, effectively lead a team, and be persistent in achieving a team purpose.

Design Software: AutoCAD (2D- 3D modeling), 3D MAX, Sketch up, Photoshop, Indesign, LogiKal (Orgadata) for glazing facade fabrication, grasshopper Rhino

Acrylic painting, oil painting, sketching with charcoal, and painting on fabric