

Curriculum Vitae

Aniseh Saber

Ph.D. in Technique and Urban Planning

MSc in Environmental Engineering

BSc in Architecture

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EDUCATION AND TRAINING

18/09/2018 – M.Sc. Environmental engineering

19/10/2020 – Università Politecnica delle Marche, Ancona, Italy
Two years' program

Thesis Topic:

Key Parameters for Urban Heat Island Assessment in Mediterranean climates for European cities Using the Urban Weather Generator Model

01/02/2020 – M.Sc. Erasmus Internship

31/07/2020 – GRECCAU lab of ENSAPBX, Bordeaux, France

BAITYKOOL project in Solar Decathlon Middle East. It stands in the third place of the contest and won the first prizes of energy efficiency, sustainability, and photovoltaic integration.

Project Topic:

Implementing Artificial Intelligence to optimize the architectural design of buildings in terms of material, design, and energy efficiency. case study: BAITKOOL

10/07/2021 – M.Sc. Campus World

31/12/2021 – Padir Tarh Consulting Engineers, Tabriz, Iran

Project Topic:

- Implementing data-driven and machine learning approaches to investigate energy consumption in residential buildings in cold climates
- Defining novel strategies to reduce energy consumption and improve thermal comfort

29/09/2012 – B.Sc. Architecture

30/09/2014 – University College of Nabi Akram, Tabriz, Iran
Two years' program

Thesis Topic:

Architectural Design of a Recreation Complex following sustainability targets

24/09/2009 Associate degree Architecture
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20/09/2011 Technical & Vocational Training school of Alzahra, Tabriz, Iran

23/09/2006 Diploma Architecture
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21/06/2007 Ostad Shahryar secondary school, Iran

WORK EXPERIENCE

10/08/2013 Researcher
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04/09/2015 Young researchers and elite club, Tabriz, Iran
Details:
Two years' employment including Research and Development
In this period, she gained valuable experiences in research, design, and preparing scientific reports and papers. Moreover, she was selected as the active member of the group in 2015 and received several letters of appreciation from the young researchers and elite club.

07/01/2015 Architecture Engineer
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12/03/2018 AzarPaya Hydraulic Structures Co., Tabriz, Iran; A knowledge-based company
Details:
Three years' employment including design and lecturing
She was a member of the architecture engineering section of this company. The main focus of her work was on the investigation of novel approaches to mitigate the negative aspects of energy consumption in buildings using recycled materials.

EDUCATIONAL SKILLS

- Urban Weather Generator (UWG)
- Optimization algorithms such as Particle Swarm Optimization (PSO)
- Building energy software, i.e., Design builder, EnergyPlus, Grasshopper, and Envi_met
- Soft computing software including Weka, Gene-Xpro tools
- 3Ds Max, V-ray, AutoCAD, Revit, Rhino 3D, and sketch up
- Microsoft Office, Endnote, Mendeley, and windows related software
- MATLAB and Python programming
- Photoshop and photo edit software

LANGUAGE SKILLS

Mother tongue:

Turkish

Other language(s):

English: C1

Persian: Native

Azerbaijani: C1

Italian: B1

PUBLICATIONS

- **Effects of Window-to-Wall Ratio on Energy Consumption: Application of Numerical and ANN Approaches**
[10.22115/SCCE.2021.281977.1299](#)
International Journal of Soft Computing - 2021
- **Effects of brace-viscous damper system on the dynamic response of steel frames**
[10.5829/IJE.2020.33.05B.02](#)
International Journal of Engineering - 2020
- **Data-driven and numerical approaches to predict thermal comfort in traditional courtyards**
[10.1016/j.seta.2019.100569](#)
Sustainable Energy Technologies and Assessments - 2020
- **Analysis of recycled aggregates effect on energy conservation using M5' model tree algorithm**
[10.1016/j.energy.2018.05.099](#)
Energy - 2018
- **Predicting Scour Depth at Seawalls using GP and ANNs**
[10.2166/hydro.2017.125](#)
Journal of Hydroinformatics - 2017
- **Prediction of non-breaking wave-induced scour depth at the trunk section of breakwaters using Genetic Programming and Artificial Neural Networks**
[10.1016/j.coastaleng.2016.12.008](#)
Coastal Engineering - 2017
- **Prediction of scour depth at breakwaters due to non-breaking waves using machine learning approaches**
[10.1016/j.apor.2017.01.012](#)
Applied Ocean Research - 2017
- **The Study of mechanical and electronic installation requirements based on passive defense approach (Case study: Tabriz Central Library)**
European Online Journal of Natural and Social Sciences - 2015
- **Analysis of Civil, Architectural and Urban Planning of Passive Defense: (Case Study: Tabriz Central Library)**
European Online Journal of Natural and Social Sciences - 2015

CONFERENCES AND SEMINARS

- [15/07/2020](#) Webinar for PhD students and professors
Ecole Nationale Supérieure d'Architecture, Bordeaux, France
Topic: Artificial Intelligence to optimize the architectural design of buildings,
case study: BAITYKOOL

- 09/12/2016** Conference paper and presentation
International congress on Target Architecture, Shiraz, Iran
Topic: Comparative study of passive defense requirements in Bonyad Maskan Building located in Tabriz
- 24/07/2015** Conference paper and presentation
International conference on architectural, civil and urban development at the beginning of the third millennium, Tehran, Iran
Topic: Civil engineering, architectural and urbanization requirements from the passive defense perspective (Case study: Tabriz Central Library)
- 24/07/2015** Conference paper
International conference on architectural, civil and urban development at the beginning of the third millennium, Tehran, Iran
Topic: Study of mechanical and electronic installation requirements based on passive defense approach (Case study: Tabriz Central Library)

Projects

- 30/12/2020** – **Building Information Modeling**
Padir Tarh Consulting Engineers, Tabriz, Iran
31/06/2020 Campus World
- 01/02/2020** – **BAITYKOOL**
GRECCAU lab of ENSAPBX, Bordeaux, France
31/07/2020 Erasmus internship
- 17/03/2015** – **Tabriz Central Library**
AzarPaya Hydraulic Structures Co., Tabriz, Iran
10/02/2016

HONOURS AND AWARDS

- **Campus World traineeship – European Union student exchange**
Padir Tarh Consulting Engineers, Tabriz, Iran
- **Erasmus internship – European Union student exchange**
Bordeaux University (GRECCAU lab of ENSAPBX, Bordeaux, France)
- **First ranked UNIVPM floor scholarship for MSc course**
Università Politecnica delle Marche, Ancona, Italy
- **Financial grant for paper publishment**
Young Researchers and Elite Club, Islamic Azad University, Tabriz, Iran
- **Active researcher honor in 2015**
Young Researchers and Elite Club, Islamic Azad University, Tabriz, Iran
- **The best Maquette of Naji resort complex**
East Azerbaijan province, Tabriz, Iran