

Arash Ahmadian

Present Address

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Education

- Doctor of Philosophy, Computational Architecture and Technology, University of Tehran, 2023 - Present
- Master of Science, Computational Architecture Design, Pars University of Architecture and Art, 2017 - 2020
- Bachelor of Science, Architectural Engineering, Ferdowsi University of Mashhad, 2011 - 2016
- Diploma in Physics and Mathematics Discipline National Organization for Development of Exceptional Talents, Hasheminejad1- High School, Mashhad, Iran, 2007 - 2011

Research Interests

- Computational Design, Parameteric Design, Sustainable Design, Algorithmic Design, Agent Based Modeling, Problem Solving

Teaching Experience

- **Teaching Assistant**
 - Teacher Assistant, Architecture Design 5, Prof. Alireza Nazarnia, Spring 2019
 - Teacher Assistant, Architecture Design 2, Prof. Alireza Nazarnia, Fall 2018
 - Teacher Assistant, Architecture Design 5, Prof. Alireza Nazarnia, Spring 2018
- **Software Instructor**
 - Software Instructor, Ferdowsi university of Mashhad teaching multiple courses on 3d visualization, design, and presentation softwares including Rhinoceros, Grasshopper, Photoshop, and Illustrator, Summers of 2013,2014,2015,2016
- **Freelance**
 - Software Tutor, Rhino, Grasshopper, Photoshop, Illustrator, etc. , 2014 - present
 - Private English language instructor, 2010 - present
 - Private Mathematics instructor, 2011 - present

Research Experience

- **Published**
 - The integration of sustainable concepts and renewable energies in university campus master plan, 2015
 - A study on sustainability & renewable energy penetration in universities, 2015
 - Analysing the relationship between university and the city in developing university campus master plans, 2016
- **Ongoing**
 - Developing a method for the optimization of double skin facades' performance in high rise buildings using cfd analysis, 2020
 - High rise building morphological form finding based on double skin facade performance using CFD analysis, 2021
 - Agent based optimization of shelf locations in hypermarkets to minimize the spread of contagious diseases, 2023

Work Experience

- **Ferdowsi University of Mashhad Campus Masterplan Office**
Junior Architect, 3D Artist
2013 - 2015
- **KCW Architects Office**
Junior Architect, 3D Artist
2015 - 2017
- **Studio IMA**
Architect, Computational Designer
2018 - 2021
- **Center for Urban Studies and Architecture of Iran,**
Architect, Computational Designer
2021 - 2023
- **Securities and Exchange Organization of Iran**
Architectural Consultant
2022 - Present
- **Architeraz Architecture and Urban Design Studio**
Senior Architect, Computational Designer
2023 - Present

Skills & Software

- Architectural Design and concept development
- Parametric Computational Design and modeling
- 3D perception, Working in 3D software platforms
- 3D modeling, analysis and optimization
- Data Visualization
- Problem solving in theory and practice
- Rhinoceros, Grasshopper, Python for Rhino and grasshopper
- Revit Architecture
- Photoshop, Illustrator, InDesign, Premiere Pro, After Effects
- AutoCAD, Lumion 3d, Sketchup
- Microsoft Office Word, Powerpoint and Excel

Honors and Awards

- Ranked 15/2637, National university entrance exam
Doctor of Philosophy, field of Architecture, 2022
- Ranked 106/12083, National university entrance exam
Master's field of Computational Architecture Design, 2017
- Ranked 2017/203011, National university entrance exam
Math and physics major, 2011
- Ranked 561/95260, National university entrance exam
English literature major, 2011
- Math games Champion,
Ferdowsi University of Mashhad's Department of Mathematics, 2009
- Semifinal stage of Iran's "National Olympiad in Informatics" (top 500)
two times, 2009 and 2010
- Semifinal stage of Iran's "National Olympiad of Mathematics" (top 500)
three times, 2008, 2009 and 2010

Language Proficiency

TOEFL iBT (November 2019):

Reading: 28/30 Listening: 29/30 Speaking: 25/30 Writing: 24/30
Total: **106/120**