Shervin Azadi

Born February 22, 1993 Email s.azadi-1@tudelft.nl Website shervinazadi.com

Github github.com/shervinazadi

Σ pecialisation Areas

Generative Spatial Design, Computational Configuration Design, Volumetric Computing, Gamification;

Education

2017 - 2019 MSc in Architecture, TU Delft;

Master of Science Architecture, Urbanism and Building Sciences / Architecture Track

2011 - 2016 BSc in Architectural Engineering, University of Tehran;

Bachelor of Science in Architectural Engineering

2007 - 2011 DIP in Mathematics and Physics, Allameh Helli High School.

NODET: National Organization for Development of Exceptional Talents

∏rofessional Experiences

2019 - now Researcher, TU Delft;

Chair of Design Informatics

Research GoDesign: graph theoretical formulation of the participatory architectural design process ModuGraph: generative graph grammars for modular construction

Education Spatial Computing: BSc minor, volumetric generative design systems for residential complex Earthy: MSc studio, computational configuration and structure design for low-tech earthy constructions

2018 - 2019 Teaching Assistant, TU Delft;

Chair of Design Informatics, under supervision of Dr. Ir. Pirouz Nourian

Research PolyShell: construction design of adobe shell structures by topological polyhedralization

Education Spatial Computing, Earthy

Future Models: data-driven design utilizing agent-based models

2017 Research Design Assistant, Tehran Platform;

Research & Workshop: IaaC GSS-17: Tehran, Inside Out: emotion-related data visualization of Tehran

2017 Architect Assistant, RMJM - Tehran;

Design Iran Historical Car Museum

Dafineh: Iran's National Jewelry Museum

2014 - 2015 Architectural Design Assistant, ABT Co;

Design Laleh International Hotels Renovation

Mosha Residential Complex

Cultural Heritage Organization Offices

2014 Architectural Intern, ABT Co.

Design Design: Laleh International Hotels Offices

Trants & Honours

2020 MIT Summer Research Project Grant;

Fundings for SOSAges: Some Other Solution Ages

Co-authored the proposal with Ardalan SadeghiKivi

2019 Actieagenda Ruimtelijk Ontwerp 2017-20, Samenwerken aan Ontwerpkracht, Ontwerp en Overheid;

Fundings for GoDesign project

Co-authored the proposal with Dr. Ir. Pirouz Nourian

2019 Cumlaude in MSc, TU Delft;

2019 Honors Master Program, TU Delft;

Based on PolyShell research projet

collaboration with Karim Daw; under supervision of Dr. Ir. Pirouz Nourian

2011 Ranked in best 0.1%, National University Entrance Exam.

Ranked 194 among 252,312 in Mathematics & Physics, National University Entrance Exam of Iran

∏ublications

submitted Gamifying an Urban Redevelopment Process in Search for Consensus; Bai, Nan & Azadi, Shervin &

Nourian, Pirouz & Pereira Roders, Ana

submitted Quadratic assignment problem using spatial geodesic distance for renovating a hospital layout design;

Cubukcuoglu, Cemre & Nourian, Pirouz & Tasgetiren, M. Fatih & Sariyildiz, I. Sevil & Azadi, Shervin

Earthy Honeycombs: Construction Design of Adobe Shell Structures by Topological Polyhedralization; Daw,

Karim & Azadi, Shervin & Nourian, Pirouz & Hoogenboom, Hans doi:10.13140/rg.2.2.19015.75684

Experiences

PROJECTS

2020 - now Developer and Maintainer of VolPy: Volumetric Computation in Python

python package for scientific analyses of volumetric data

Collaboration with Dr. Ir. Pirouz Nourian

2019 - now Co-founder at GSS-Lab: Generative Sciences and Systems Lab

Co-founded with Dr. Ir. Pirouz Nourian

2019 - now Co-founder at Emergentium: Rule-based Urban Emergence

Co-founded with Nour Abuzaid

research project aiming to integrate the interface and the computational logic in a design platform

2019 - now Co-founder at SOSAges: Some Other Solution Ages

Co-founded with Ardalan SadeghiKivi & Armin Rangani

art project that explores the human perception process in new media

Teaching

2018 - now Spatial Computing - BK7083 - git

BSc Minor at TU Delft: Volumetric generative design systems for residential complex;

2018 - now Earthy - AR3B011 - git

MSc Building Technology Design Studio at TU Delft: Computational configuration and structure design for low-tech earthy constructions;

2018 - 2019 Future Models - ARITWF030

MSc Architecture Seminar at TU Delft: Data-driven design utilizing agent-based models;

2017 IaaC global summer school - Tehran Inside Out

Workshop of Computational Architecture at TehranPlatform: IaaC global summer school, Tehran node;

2014 - 2016 Freelance architectural software tutor: Rhino, Grasshopper, VRay;

Volunteering

2018 - 2019 Event organizer at Work/Out

event series pushing the discussion about the working culture & conditions of architects

2016 Volunteer at ICMPS: Iranian Child Maltreatment Prevention Society

Event Conductor and Graphic Designer; in coordination with National Children's Rights Convention

Σ kills

METHODICAL SKILLS

Spatial Analyses Advanced

Proficient in the generation, manipulation and analysis of various spatial models

such as surface-based, volumetric and graph-theoretical models.

Scientific Computing Intermediate

Capable of design and implementation of algorithms and simulations utilizing

Numerical Analyses, Finite Differences, and recently Automatic Differentiation

Software Package Intermediate

Development Experienced with test-driven development and version control systems (mainly

in python and for computational design)

Automation Intermediate

Experienced with workflow automation (mainly in computational design)

TECHNICAL SKILLS

Python Advanced

Package Development, Scientific Computing, Agent-Based Models, Data

Visualization, Geometry Visualization NumPy, SciPy, Pandas, NetworkX

Houdini/VEX Advanced

Generative Systems, Agent-Based Models, Volumetric and Geometric Computation, Physic-Based Simulations, Data Visualization, Geometry

Visualization

JavaScript Intermediate

Data Vis, Geometry Vis, Interactive Interfacesm

Three.js, D3, Vue, Firebase, Node JS

Java Intermediate

Processing, Arduino

C# Basic

Computational Geometry: Rhino, Grasshopper

Haskell Enthusiastic Beginner

Starting with Automatic Differentiation

Representation Skills

Documentation Advanced

LaTeX, MarkDown, reStructuredText

3D Modeling Advanced

Houdini, Grasshopper, Rhino, Cinema 4D

Rendering Advanced

Mantra, VRay, Vector Rendering

Interaction Intermediate

Unity, Unreal, Vue, Three.js, D₃

Languages

Farsi Native English Fluent

Last updated: July 9, 2020 • shervinazadi.com/p/cv