



The architect's role is to reveal the unexplored and intricate relationships between different domains as innovation emerges at the intersection of different fields. A computational designer and researcher who believes in a multidisciplinary approach in the field of architecture, both in academia and practice. An architect who is enthusiastic for creative coding and software development.

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Wallacei: www.wallacei.com



Visit the website by scanning the QR code.

Academic

2017 - 2021

Architectural Association (AA), UK
PhD by Design
*Homeostatic Urban Morphologies
An Evolutionary Model*

2012 - 2015

Pratt Institute, USA
Master of Architecture
(Sydney Katz Award for Design Excellence)
Graduate Architecture and Urban Design (GAUD)

2007 - 2012

Shahid Beheshti University, Iran
Bachelor of Science
in Architectural Engineering
School of Architecture and Urban Planning

Publications

2019 - Present

Wallacei- An Evolutionary and Analytic Engine for Grasshopper 3D
Plugin Release for Grasshopper 3D

2021

Genomic Analysis of Architectural Design Problems Developed Through Multi-Objective Evolutionary Algorithms
Technology | Architecture + Design Journal

2021

Evolutionary Design Processes with Embedded Homeostatic Principles: Adaptation of Architectural Form and Skin to Excessive Solar Radiation
Journal of Computer-Aided Design and Applications

2020

Application of Homeostatic Principles Within Evolutionary Design Processes: Adaptive Urban Tissues
Journal of Computational Design and Engineering

2020

Multi-Objective Optimization of Robotically Bent In-Situ Reinforcement System
SimAUD, Online Conference

2020

Homeostatic Generative Design Process: Emergence of the Adaptive Architectural Form and Skin to Excessive Solar Radiation
International Journal of Architectural Computing

2019

Robotic-Aided Fabrication of Materially Efficient Complex Concrete Assemblies
CAAD Futures Conference, South Korea

2018

Evolutionary Algorithms for Generating Urban Morphology: Variations and Multiple Objectives
International Journal of Architectural Computing

2018

Control of Morphological Variation Through Population Based Fitness Criteria
CAADRIA Conference, China

2016

Pudong Mixed-Use Tower
EVOLO Skycrapers Volume 3

2012

Using Parametric and Complex Geometry of Seashells to Realize and Construct an Organic Architectural Space
Advances in Architectural Geometry, France (Poster)

2011

A Sport Hall Prototype with a New Structural Approach
International Seminar Competition, Iran (Poster)

Workshops & Lectures

2020

Cornell University, New York, USA
Webinar Presenter
Multi-Objective Evolutionary Algorithms Using Wallacei

2020

Kent School of Architecture, Canterbury, UK
Presenter
Evolution as a Design Model

2020

Iaac, Barcelona, Spain
Tutor
Design DNA

2019

UCL, Bartlett, BPro, London, UK
Tutor
Evolutionary Design Strategies Using Wallacei

2019

UWE, Bristol, UK
Presenter
Generative Design Principles of Wallacei

2019

Northumbria University, Newcastle, UK
Presenter
Design Principles at the Digital Age

2019, 2020

McNeel EU, Barcelona, Spain
Tutor
Algorithmic Evolutionary Design Workshop w/ Wallacei

2019

Pratt Institute GAUD, New York, USA
Webinar Series Tutor
Evolution as a Model for Urban Design Using Wallacei

2019

AA Summer DLab, London, UK
Presenter
Generative Algorithms in Design

2019-2020

London, UK
Presenter
Significance of Evolutionary Algorithms in the Architectural Practices @ Bryden Wood // UHA // Heatherwick Studio WilkinsonEyre // Prior and Partners Grimshaw Architects // AECOM Eckersley O'Callaghan // Populous // ARUP

Professional // Research

2018 - Present

London, UK
Co-Founder
Wallacei

2020 - Present

Architectural Association (AA), London, UK
Studio Master
Emergent Technologies and Design Postgraduate Course

2018 - Present

Istanbul, Turkey
Co-Programme Head
Architectural Association (AA) Istanbul Visiting School

2021 - Present

Iaac, Barcelona, Spain
Seminar Faculty
Master in City and Technology

2021

Bartlett School of Architecture, UCL, London, UK
Skill Module Tutor
Research Cluster 0, BPro

2018 - 2020

Architectural Association (AA), London, UK
Studio Tutor
Emergent Technologies and Design Postgraduate Course

2019 - Present

New York, USA
Strategic Adviser, Specialised Consultant
New York State Health Foundation Grant Pratt Teconic Fellowship CCCE LLC, Pratt Institute

2015 - 2016

Shanghai, China
Project Lead
Contemporary Architecture Practice (CAP) - Ali Rahim and Hina Jamelle

2013 - 2015

New York, USA
Graduate Teaching Assistant // DPL
Pratt Institute (GAUD)

2013

New York, USA
Architectural Designer
SU11 Architecture + Design

2010

Tehran, Iran
Project Architect on Construction Site
Parhoon Architecture Office

2008- 2010

Tehran, Iran
Fellow Lab Researcher
Intelligent Systems in Architectural Engineering Center (ISAEC)