

Danial Monsefi Parapari

Curriculum Vitae

PERSONAL DETAILS

Birth April 26, 1984
Address Faculty of Architecture and Urbanism, Shahrood University of Technology, Shahrood, Iran
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EDUCATION

Ph.D.; Urban Design and Land-Use Planning **2010-2015**
Dortmund University of Technology, Dortmund, Germany
Thesis Title: Adaptation to Climate Change and Thermal Comfort; Supervisors: Prof. Christa Reicher, Prof. Dietwald Gruehn.; **Thesis Grade: Very Good**

M.Sc.; Urban Planning and Design **2008-2010**
The Royal Institute of Technology - KTH, Stockholm, Sweden
Thesis Title: Automobile Dependency: Improving Urban Resilience Through Urban Planning and Design; Supervisor: Dr. Tigran Haas; **Thesis Grade: A**

B.Sc.; Architectural Engineering **2002-2008**
Shahid Bahonar University of Kerman, Kerman, Iran
Thesis Title: Kerman Ophthalmology Hospital; Supervisor: Eng. Arch. Mehrdad Moinzadeh.

Diploma; Math and Physics **1998-2002**
Allame Helli Highschool
Highschool Diploma in Math and Physics, studied in a school belonging to the National Organization for the Development of Exceptional Talents: NODET

WORK EXPERIENCE

Founder and Director of FabLab **2018-Present**
Shahrood University of Technology, Full-time
Designing and developing the Fabrication Lab at the faculty. Holding courses and managing events in the lab to promote the latest technologies in rapid prototyping and CAD/CAM systems.

Assistant Professor **2015-Present**
Shahrood University of Technology, Full-time
Managing and teaching several undergraduate and graduate courses at the faculty of Architecture and Urbanism, Supervising and examining graduate theses.

Rural Planner**2015-Present***Kerman Housing Foundation, Part-time*

Designing rural master and comprehensive plans for several villages in Kerman province. Final designs received the highest assessment results of the last two years.

Guest Lecturer**2015-2017***Islamic Azad University, Rafsanjan and Shahrood Branches, Part-time*

Managing and teaching several graduate courses at the faculty of Architecture and Urbanism.

Freelance Urban Designer/Planner**2010-Present***Various Clients, Part-time*

Managing complex and sensitive professional planning projects, research and analysis; Monitoring and ensuring compliance with local and national laws; Overseeing specialized planning functions such as large-scale new development proposals and environmental studies, focusing on sustainable urban development.

Architectural Modeller**2006-2008***Hashoor Co., Part-time*

Expert in architectural rendering using Autodesk 3D Max. Advanced 3D modelling and animation of architectural and analytical projects. Developing techniques for the export and transfer of complex 3D models into AutoCAD for fabrication and rapid prototyping via 2D laser-cutting systems. Responsible for managing warehouse, placing orders and purchases, following up on orders. Developing a network of contacts with suppliers and possible customers.

COURSES TAUGHT

Graduate

Site Planning
Research Methodology
Residential Planning
Land-use Allocation Theories
Urban Renovation and Restoration
Urban Planning Studio
Application of Databases in Urbanism

Undergraduate

Environmental Design
Introduction to Physical Planning
Computer Aided Design and Construction
Research Methodology
Analysis of Urban Spaces

FIELDS OF INTEREST

- Energy and Microclimate Modelling and Simulation
- Regenerative Design
- Urban Resilience, Disaster Mitigation and Recovery, Post-Crisis Urbanism
- Future of Urban/Architectural Design
- Application of Innovative Materials and Technologies (AI, IoT, etc) in Construction and Design

HONOURS AND AWARDS

- *German Academic Exchange Service (DAAD)*: Research Grant for Doctoral Candidates and Young Academics and Scientists, August 2011 - January 2014
- *German Academic Exchange Service (DAAD)*: Travel Grant for Field Research, July 2012
- *12th Kharazmi International Olympiad*: Honorable Researcher, Tehran, 1999

PAPERS AND POSTERS

- **Danial Monsefi Parapari**, Elham Sanagar Darbani, *Climate Considerations in Traditional Iranian Urbanism*, (Under Review), 2023.
- **Danial Monsefi Parapari**, Elham Sanagar Darbani, Matin Bastanfard, *Proposing a Conceptual Model of Urban Form Based on Urban Heat Island and Outdoor Thermal Comfort*, (Under Review), 2023.
- Elham Sanagar Darbani, **Danial Monsefi Parapari**, Mojtaba Rafiean, Toktam Hanaee, *Urban Heat Island and Human Health in Grid-net and Organic Urban Fabrics*, (Under Review), 2023.
- Elham Sanagar Darbani, Mojtaba Rafiean, **Danial Monsefi Parapari**, Jean-Michel Guldmann, *Urban Design Strategies for Summer and Winter Outdoor Thermal Comfort in Arid Regions: The Case of Historical, Contemporary and Modern Urban Areas in Mashhad, Iran*, *Sustainable Cities and Society*, 2022.
- Elham Sanagar Darbani, **Danial Monsefi Parapari**, *Ideal Model for Investigating Urban Form Effects on Urban Heat Island and Outdoor Thermal Comfort: A Review*, *International Journal of Engineering Science Technologies*, 2022.
- Elham Sanagar Darbani, **Danial Monsefi Parapari**, John Boland, Ehsan Sharifi, *Impacts of Urban Form and Urban Heat Island on the Outdoor Thermal Comfort: a Pilot Study on Mashhad*, *International Journal of Biometeorology*, 2021.
- Sepideh Jafarian, Elham Sarkardehee, **Danial Monsefi Parapari**, Mohammadreza Mojahedi, *Investigating the Effect of Flexible Lightweight Membrane Canopy in Order to Provide Thermal Comfort in Hot and Dry Climate*, *Journal of Sustainable Architecture and Urban Design*, 2021.
- Sepideh Jafarian, Elham Sarkardehee, **Danial Monsefi Parapari**, Mohammadreza Mojahedi, *Introducing Optimal Model and Dimensions of Lightweight Membrane Canopy for Hot and Dry Climate of Semnan*, *Renewable Energy Research and Application*, 2021.
- Elham Sanagar Darbani, **Danial Monsefi Parapari**, Sara Mirheydar, Samaneh Mastiani, *Civil and Environmental Engineering Climatic Design Principles of Underground Spaces Using CFD Simulation*, Vol. 16, Issue 2, 2020.
- Sara Jalalii, **Danial Monsefi Parapari**, MohammadJavad Mahdavinejad *Analysis of Building Facade Materials Usage Pattern in Tehran*, *Advanced Engineering Forum*, 2019.

- Sajedeh Moghimi, **Danial Monsefi Parapari**, *Site selection for Temporary Earthquake Shelter Compounds, Using Analytic Hierarchy Process and Weighted Linear Combination based on GIS; Case Study: Shahrood*, (In Persian), Spatial Analysis of Natural Hazards, 2019.
- Elham Sanagar Darbani, **Danial Monsefi Parapari**, Alireza Taherkhani, Siavash Hajifathali, *Assessing Sense of Security and Crime Prevention in Public Spaces of Residential Complexes. Case Study: Sheshsad Dastgah Residence, Mashhad, Iran*, (In Persian), Journal of Order and Security, 2019.
- Niloofar Rezaian Tabrizi, **Danial Monsefi Parapari**, Mansooreh Mohseni, *Investigating the Effects of Participation on Design Process*, (In Persian), 3rd International Conference on New Findings of Civil, Architectural and Iran Building Industry, Tehran, 2018.
- Mansooreh Mohseni, **Danial Monsefi Parapari**, Hossein Alipoor, *Analysis of Geometrical Patterns in Goharshad Mosque*, (In Persian), 3rd International Conference on New Findings of Civil, Architectural and Iran Building Industry, Tehran, 2018.
- Sajedeh Moghimi, **Danial Monsefi Parapari**, *The process of securing in historical texture after an earthquake*, (In Persian), International Congress on Avant-garde Contemporary Architecture and Urbanism in Islamic Countries, Mashhad, 2018.
- Elham Sanagar Darbani, **Danial Monsefi Parapari**, Mojtaba Rafiean, Toktam Hanaee, *The Effects Of Urban Heat Islands Mitigation On Human Health Through Changes In Urban Form In Hot And Arid Climate Of Mashhad (Case Study Shahed And Pachenar Neighborhoods)*, (In Persian), International journal of Environmental Science and Technology, 2018.
- Elham Sanagar Darbani, Mojtaba Rafiean, Toktam Hanaee, **Danial Monsefi Parapari**, *Environmental Effects Of Urban Geometry Changes On Air Temperature And Outdoor Thermal Comfort In Arid Climate Of Mashhad (Case Study Of Pachenar And Shahed)*, (In Persian), Journal of Environmental Studies 43(4), 2018.
- Fatemeh Shafeezadeh, **Danial Monsefi Parapari**, *Introduction to the Potentials of Urban Ornaments in Promoting Urban Branding*, (In Persian), 5th National Conference on Applied Research in Civil Engineering, Architecture and Urban Management, Tehran, 2017.
- Fatemeh Shafeezadeh, **Danial Monsefi Parapari**, *Investigating the Effects of Urban Elements on Urban Branding*, (In Persian), 5th International Congress on Civil Engineering, Architecture and Urban Development, Tehran, 2017.
- **Danial Monsefi Parapari**, *Outdoor Thermal Comfort in Informal Settlements*, CUI '17 / V. International Contemporary Urban Issues Conference, Istanbul, 2017.
- **Danial Monsefi Parapari**, Shima Taslim and Arezou Shafaghat, *Feasibility Assessment Of The Implementation Of Solar And Wind Energy Technologies In The Current Context Of Iran; Case Study: Kerman*, Jurnal Teknologi, 2015.
- Shima Taslim, **Danial Monsefi Parapari** and Arezou Shafaghat, *Urban Design Guidelines to Mitigate Urban Heat Island (UHI) Effects in Hot-Dry Cities*, Jurnal Teknologi, 2015.

- **Danial Monsefi Parapari** and Shabnam Baharvand, *Limits and Barriers to Adaptation to Climate Change in Iran*, International Conference on Earth Sciences and Urban Development, April 2015, Tabriz, Iran.
- **Danial Monsefi Parapari** and Tara Jalali, *Investigation of Power and its Practices in Built Environment*, (In Persian), International Conference on Civil Engineering, Architecture and Sustainable Urban Development, November 2013, Tabriz, Iran.
- Tara Jalali and **Danial Monsefi Parapari**, *Cultural Aspects of Reconstruction; Case Study: The Rudbar Region in Gillan 1990 Earthquake.*, (In Persian), International Conference on Civil Engineering, Architecture and Sustainable Urban Development, November 2013, Tabriz, Iran.
- Tara Jalali and **Danial Monsefi Parapari**, *Resilient City in Face of Earthquakes, Scenario Based Planning for a Possible Earthquake in Tehran*, (in Persian), Architecture and Sustainable Urban Spaces Conference, December 2013, Mashhad, Iran.

SKILLS AND LICENCES

Languages	Persian (Mother tongue) English (Fluent: TOEFL iBT: 109/120, IELTS: 8) German (Intermediate: B1) Dutch (Beginner)
Architecture	Licensed Architect by the Construction Engineering Organization of Iran for Architectural Design and Supervision.
Software	MICROSOFT OFFICE, ENVI-MET, AUTOCAD, REVIT, RHINO, GRASSHOPPER, LADYBUG, DESIGNBUILDER, RAYMAN, L ^A T _E X.
Programming	Extensive experience in coding in PYTHON, intermediate knowledge of interactive web design by PHP, and intermediate knowledge of statistical computing using R.

PARTICIPATIONS AND PRESENTATIONS

- Inaugural Speech, *National DAAD Scholarship Holders' Symposium*, Bonn, Germany, 2014
- 7th *International Space Syntax Symposium*, Stockholm, Sweden, 2009
- *Rotterdam Global Urban Summit*, Rotterdam, The Netherlands, 2009

PROFESSIONAL MEMBERSHIPS

- Congress for the New Urbanism
- International Association for Urban Climate
- Kerman Board of Architects and Structural Engineers
- The International Society of City and Regional Planners (ISOCARP)
- American Planning Association (APA)

REFEREES

- **Prof. Christa Reicher;** Chair of Urban Design and Institute for Urban Design and European Urbanism; *RWTH Aachen University*;
reicher@staedtebau.rwth-aachen.de; +49 241 80 95033
- **Dr. Tigran Haas;** Associate Professor; Docent; Director of the Center for the Future of Places; *KTH - Royal Institute of Technology*;
tigran.haas@abe.kth.se; +46 8 790 85 04
- **Prof. Dietwald Gruehn;** Chair of Landscape Ecology and Landscape Planning;
TU Dortmund University;
dietwald.gruehn@udo.edu; +49 231 755 2285