

# Sibel Yasemin Özgan

## Education

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2012-2018

### PhD in Architectural Design Computing

Istanbul Technical University, Faculty of Architecture

Thesis: Computational Design in the Medieval Seljuk Art: Learning From The Hands-On Creative Traditions Of Geometric Patterns

Thesis Advisor: Assoc. Prof. Dr. Mine Özkar

2016 - 2017

### Visiting scholar - PhD research

Universität der Künste Berlin, Digitales und Experimentelles Entwerfen

Co-Advisor: Prof. Dr. Norbert Palz

2013

### The British Museum, London, International Training Program Participant

The British Museum program offered a series of sessions for museum professionals designed to provide an insight into the workings of museums and cultural heritage institutions in the UK, it includes sessions on collections management, storage and documentation; exhibitions and galleries; conservation and scientific research; national and international loans; learning, audiences and volunteers; fundraising, income generation and commercial programs; and leadership, strategy, and museums management.

2009-2011

### M.Sc. in Architectural Design Computing

Istanbul Technical University, Faculty of Architecture

Thesis: Use of Augmented reality Technologies in Cultural Heritage Sites:

Virtu(re)al Yenikapı

Advisor: Assoc. Prof. Dr. Yüksel Demir

GPA. 3.80 (4.00), high honor list

2011

### Exchange Student, Vienna University of Technology

#### Building Science Master Program

Research; Augmented Reality, Interactive Game Design, Fabrication

Co-Advisor: Ass. Prof. Dr. Peter Ferschin

2004-2008

### Bachelor in Interior Architecture,

Istanbul Technical University, Faculty of Architecture

GPA. 3.49 (4.00), high honor list// **Graduated as the top of the class**

## Research Projects

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2014- 2016

Project member in “**A Computational Analysis of the Design Processes**

**Behind Two-dimensional Seljukid Geometric Patterns in Anatolia**”, funded

by Tübitak (The Scientific and Technological Research Council of Turkey),

## About me

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**DOB** 03/11/1985

**Nationality** German, Turkish

My research interest lies in the relation of computation to histories of culture, art, crafts and architecture. Rather than a mere reduction of any artwork to rules, I am mostly interested in understanding the “calculation”s in artistic processes.

My interest are:

Theory of Design Computation,

Architectural Design and Theory

Art History, Graphic Arts

Ancient Greek and Ancient Islamic art,

20th Century Western Paintings

## Professional Skills

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MS Office ● ● ● ● ● ● ●

Photoshop ● ● ● ● ● ● ●

Illustrator ● ● ● ● ● ● ●

InDesign ● ● ● ● ○ ○

Autocad ● ● ● ● ● ● ●

Revit ● ● ● ○ ○ ○

3Ds Max ● ● ● ● ● ○

Rhino - Grasshopper ● ● ● ● ● ○

Java Programming ● ● ● ● ● ○

## Languages

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Turkish (Native)

German (Second Native Language)

English (Fluent)

French (Beginner)

## Employment

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2018-

**ASSISTANT PROFESSOR, MEF University, Faculty of Arts, Design and Architecture**

2012 - 2018

**RESEARCH and TEACHING ASSISTANT, Istanbul Technical University, Faculty of Architecture, Department of Interior Architecture**

### Teaching Experience

- Teaching Assistant in First year Basic Design Studio
- Teaching Assistant in Interior Architecture Diploma Project
- Teaching Assistant in Bachelor of Interior Architecture Studio IV- III-II-I
- Teaching the course "Digital Representation tools in Interior Architecture"
- Teaching assistant in 'International Master in Interior Architectural Design'-(IMIAD) Master Program (IMIAD is an international Graduate Program in collaboration with Stuttgart University of Applied Sciences - HFT, Germany & Istanbul Technical University- ITU, Turkey & Edinburgh Collage of Art- ECA, Scotland & Universitaria Professionale della Svizzera Italiana-SUPSI, Switzerland and CEPT University, Ahmadabad -India )

### Administrative Experience

- Istanbul Technical University, Faculty of Architecture, Member of the Architectural Faculty Board of Management Teaching and Research assistants' representative of ITU School of Architecture
- Faculty Representative of School of Architecture in Annual High School Career Discovery Events, ITU
- Department representative of several Faculty Commissions

### Publishing Experience

- AIZ ITU Journal of the Faculty of Architecture, editorial secretariat

### Exhibition Experience

- Management and concept design of end of semester exhibitions of Bachelor & Master Design Studio Projects
- Management and concept design of end of semester exhibitions of Interior Architecture selected student works
- Management and concept design of several workshop end-results

### Organization Experience

- Organization of international and national conferences
- Organization of several faculty events
- Organization of several international architectural design workshops

2012 - 2009

**Professional Experience in Several Architectural Design Offices and Archaeological Excavation Sites**

#### •Interior Architect, Arsiyel Architects, Istanbul-Turkey

Project coordinator of several national and international RETAIL, HOUSING and MIX-USE Projects

#### •Interior Architect, Riedel Architects, Vienna-Austria

Project group member of Fasangarten HOUSING project

#### •Interior Architect, 314 Architects, Istanbul-Turkey

Project coordinator of several national and international RESTAURANT, HOTEL, COMPETITION, HOUSING and COMMERCIAL INTERIOR DESIGN Projects

#### •Kolophon Archaeological Excavations

Ancient city wall building survey

#### •Knidos Archaeological Excavations

Ancient theater building survey; Ancient harbor stairs building survey

## Publications

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- Özgan S.Y., Özkar. M., 2017, **A Thirteenth-Century Dodecahedron in Central Anatolia: Geometric Patterns and Polyhedral Geometry**, Nexus Network Journal, DOI 10.1007/s00004-017-0341-0
- Özgan S.Y., Sevmen D., 2015, **Recalling The Heritage Of Ancient Wreath Designs: An Exploration Of The Computation In Making**, Project Information for Interaction Proceedings of the 19th International Conference of the The Iberoamerican Society of Digital Graphic (SIGRADI) 2015, 23 -27 November 2015., Universidade Federal de Santa Catarina, Florianópolis/SC, Brasil, ISBN: 2318-6968
- Özgan S.Y., Özkar. M., 2014, **PLAYING BY THE RULES: Design reasoning in Escher's creativity**, Rethinking Comprehensive Design: Speculative Counterculture Proceedings of the 19th International Conference of the Association of Computer-Aided Architectural Design Research in Asia (CAADRIA) 2014, Hukuto Print Co., Ltd., Kyoto-JAPAN, ISBN: 978-988-19026
- Özgan, S.Y., Bacinoglu, S.Z., Coşkun, E., 2014, **The Potentials of Rules Based Approaches in Design Formation Processes**, in Critical Spaces; Contemporary Perspectives in Urban, Spatial and Landscape Studies (ed. Alexandru Calcat- inge), Lit Verlag, Vienna-AUSTRIA, ISBN: 978-3-643-90495-9
- Özgan, S.Y., Demir, Y., 2013, **Use Of Augmented Reality Technologies In Cultural Heritage Sites; Virtu(Re)Al Yenikapi**, Sayisal Tasarım Entropi Yaraticilik Proceedings of the VII. Computational Design in Architecture Conference "Computational Design, Entropy, Creativity", İstanbul, Turkey, 27-28 June 2013, ITU Mimarlık Fakültesi Matbaası, İstanbul-TURKEY, ISBN: 978-975-561-437-3

## Conferences and Other Presentations

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- **EUSIPCO 2017 "Creative Design and Advanced Manufacturing: An Emerging application area for Signals and Systems"** workshop, Kos Island- Greece, 2 September 2017 Research Presentation "How Material and Making Alters Visual Computation: The Traditional Art of Tile Mosaic"
- **Nexus 2016 Architecture and Mathematics Conference**, 6-9 June 2016, San-Sebastian, Donastia- SPAIN, paper presentation "Repeat Patterns on Polyhedra: a Case of a 13th-Century Dodecahedron in Central Anatolia"
- **Creating Museums of World Stories**, 20-21 November 2015, Chhatrapati Shivaji Maharaj Vastu Sangrahalaya (CSMVS), Mumbai-India, Workshop Presentation "Istanbul: City and Empire Discover Istanbul and the world on the streets"
- **19th International Conference of the The Iberoamerican Society of Digital Graphic (SIGRADI)**, 23-27 November 2015, Full Paper Presentation "Recalling The Heritage Of Ancient Wreath Designs: An Exploration Of The Computation In Making"
- **Computational Problems in Creative Design With Shapes, Massachusetts Institute of Technology**, 12-13 June 2015, Research Presentation "Geometric Patterns and Distorted Dodecahedrons"
- **National Postgraduate Studies Conference in Interior Architecture**, 26-27 February 2015, Full Paper Presentation " Investigating and Interpreting the Interior Architectural Postgraduate theses in Turkey"
- **19th International Conference of the Association of Computer-Aided Architectural Design Research in Asia CAADRIA 2014**, 14-17 May 2014, Full Paper Presentation "PLAYING BY THE RULES: Design reasoning in Escher's creativity"  
**Young CAADRIA Award Winner**
- **Seventh International Conference on Design Principles and Practices, Chiba University, Chiba/JAPAN**, Full Paper Presentation "Integrating Augmented Reality into Design Thinking and Education"
- **VII. Computational Design in Architecture Conference "Computational Design, Entropy, Creativity"**, İstanbul, Turkey, 27-28 June 2013, Full Paper Presentation "Use Of Augmented Reality Technologies In Cultural Heritage Sites; Virtu(Re)Al Yenikapi",

## Grants and Awards

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- **Scholarship for PhD Research, Tubitak** (The Scientific and Technological Research Council of Turkey)  
Scholarship for partial PhD research in Berlin/ Germany
- **Scholarship for PhD Students, Tubitak** (The Scientific and Technological Research Council of Turkey)  
Full scholarship for graduate education; covering living expenses.
- **2014 Young CAADRIA Award**, Computer-Aided Architectural Design Research in Asia (CAADRIA) Committee
- **The British Museum, International Training Program Participant**, Full Scholarship for the International Training Program,
- **Graduation award from the Rector-ship Faculty and Department**, Istanbul Technical University

## Workshop attendance and tutoring

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- **Polyhedral Tessellations a Workshop on 2D and 3D Pattern Transformations**, a workshop organization for CAADFutures 2017: future trajectories of computation in design, tutors: Sibel Y. Özgan, Begüm Hamzaoğlu, 10 July 2017
- **Interaction Where? Under the Bridge**, a workshop organization for CAADFutures 2017: future trajectories of computation in design, tutors: Tuba Özkan, Sibel Y. Özgan, 11 July 2017
- **Creating Museums of World Stories**, Chhatrapati Shivaji Maharaj Vastu Sangrahalaya (CSMVS), Mumbai-INDIA a workshop organized with the collaboration of British Museum, 2015, participant
- **Conversation with Crafts, IMIAD, Workshop**, Cept University, Ahmadabad-INDIA, 2015  
project leader and tutor of the craft group metal
- **Vertical Interventions**, Architectural Association Istanbul Visiting School, 2013, attendance with full scholarship
- **Dynamics of Space**, 10. Annual German-Turkish Interior Architects Meeting, Istanbul, 2012, tutor
- **New Front Design for Thessaloniki**, Urban Re-Generation design workshop, Greece, 2011, participant
- **Parametric Synthesis**, Parametric design workshop, Istanbul, 2010, participant
- **Towards a new Mobility**, Advanced Digital Architectural Design workshop, Detmold - Germany, 2010, participant
- **Istanbul transitions: Integral Design Strategies**, international architectural design workshop, 2010, participant
- **Re:mix Petrazalka**, international architectural design workshop, Istanbul, 2008, participant
- **Form Seeks Function**, international architectural design workshop, Istanbul, 2007, participant
- **IMIAD San Bernardino**, international architectural design workshop, Switzerland, 2006, participant