

Sibel Yasemin Özgan

<https://sibelożgan.com>

PhD in Computational Design

Assistant Professor - Interior Design

Born 1985 (Konya, Turkey); dual citizenship in Germany and in Turkey

Education

2012 - 2018 (date of graduation: 21.09.2018)

PhD in Architectural Design Computing

Istanbul Technical University, Department 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 / Guest Lecturer

Berlin University of the Arts, Faculty of Architecture,

Department of Digital and Experimental Design

Research-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 (date of graduation: 17.06.2008)

M.Sc. in Architectural Design Computing

Istanbul Technical University, Department 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 with Unity

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

2004 - 2008 W

Bachelor in Interior Architecture

Istanbul Technical University, Faculty of Architecture

Recognition

Research Grant, TUBITAK (The Scientific and Technological Research Council of Turkey) . Scholarship for 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 Participation Grant**, Full Scholarship covering living expenses

• **Graduation award (Ranked First in her Graduating Class)**, from the Rectorship, Faculty and Department, Istanbul Technical University

Phone +90 212 395 36 00

E-mail ozgans@mef.edu.tr

Address MEF University,
Faculty of Art, Design and Architecture
Department of Interior Design
Ayazağa Cad. No.4 34396
Maslak-Sarıyer-Istanbul / TURKEY

Research and Teaching Interests

- Visual Computation
- Computational Making and Material Computation
- Craft Theory
- Digital Craftsmanship
- Shape Studies
- Creative Coding

Sibel Yasemin Özgan's research interest lies in the relation of computation to histories of culture, arts, crafts and architecture. Her PhD investigates the hands-on creative traditions of the medieval craftsmen. The research shows that medieval builder's analog computations that involve the geometrical pattern adaptation to a wide variety of geometrical forms and architectural surfaces plays into creativity in much more flexible ways than those usually attributed in technology.

Professional Skills

Programming Languages

Java ● ● ● ● ● ● ● ●

- *Certificated by the completion of a 160 hour Java and Object Oriented Programming Course & 160 hour Application Development with Java Course*

Processing ● ● ● ● ● ○

Creative Design Tools

Photoshop ● ● ● ● ● ● ● ●

Illustrator ● ● ● ● ● ● ● ●

InDesign ● ● ● ● ● ● ● ●

Drawing and 3D Modelling Tools

Autocad ● ● ● ● ● ● ● ●

3Ds Max ● ● ● ● ● ● ● ○

Rhino - Grasshopper ● ● ● ● ● ● ● ○

Revit ● ● ● ○ ○ ○

MS Office / Keynote ● ● ● ● ● ● ● ●

Languages

Turkish (Native)

German (2nd Native Language)

English (Fluent)

French (Beginner)

Experience

2018 - Present

Assistant Professor, Istanbul MEF University, Faculty of Arts, Design and Architecture, Department of Interior Design
Istanbul - TURKEY

Teaching Experience

- Mandatory Undergraduate Course **Atmosphere Design** (Spring 2019)
- Mandatory Undergraduate Course **Introduction to Interior Design** (Fall 2018 and 2019)
- Elective Undergraduate Course **Creative Coding** (Spring 2020)
- Undergraduate Course **Design and Build Studio** (Summer 2019)
- Undergraduate Course **Interior Architectural Design Studios II** (Fall 2018), **IV** (Fall 2019), **V** (Fall 2019)
- Undergraduate Course **Interior Architectural Design Diploma Project** (Spring 2019 and 2020)

Administrative Experience

- Faculty representative of Internship Commission

February 2016 - February 2017

Visiting Scholar, Berlin University of the Arts, Berlin - GERMANY

Teaching Experience

- Graduate Course **Digital Architectural Design Studio** (Fall 2016)

2012 - 2018

Research & Teaching Assistant, Istanbul Technical University, Faculty of Architecture, Department of Interior Architecture
Istanbul - TURKEY

Teaching Experience

- Graduate Course **International Master in Interior Architectural Design (IMIAD*) Interior Architecture Project I** (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 & CEPT University, Ahmadabad -India) (Fall 2014)
- IMIAD* Graduate Mandatory Course **Digital Representation Techniques for Interior Design** (Spring 2013)
- Undergraduate Course **Design Principles of Interior Finishing Systems** (Spring 2017)
- Undergraduate Course **First year Basic Design Studio** (Spring 2017)
- Undergraduate Course **Architectural Design Studio III** (Fall 2013)
- Undergraduate Course **Interior Architectural Design Diploma Project** (Spring 2012, Spring 2014)
- Undergraduate Course **Interior Architectural Design Studio I** (Spring 2012), **II** (Fall 2012), **III** (Spring 2014) and **IV** (Fall 2014)

Administrative Experience

- Member of the Architectural Faculty Board of Management as Teaching and Research assistants' representative
- 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 & Organization 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 of international and national conferences
- Organization of several faculty events
- Organization of several international architectural design workshops

December 2011 - April 2012

Interior Architect, Arselpe Architectural Design Office, Istanbul - TURKEY

Project coordinator of several national and international Retail, Housing and Mix-Used Architectural & Interior Design Projects

2011 - Summer

Interior Architect / Intern, Riedl Architectural Design Office, Vienna - AUSTRIA

Project architect - Fasangarten Housing project, Vienna

2010 - Summer

Kolophon Archaeological Excavations, Izmir - Turkey

Ancient city wall building survey

2009 - 2010

Interior Architect, 314 Architectural Design Office, Istanbul-Turkey

Project coordinator of several national and international Restaurant, Hotel, Competition, Housing and Commercial Interior Design Projects

2005, 2006 and 2012 - Summer

Knidos Archaeological Excavations, Mugla- Turkey

Theater building survey and Harbor stairs building survey in the ancient Greek city of Knidos

Publications

Journal Articles

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

Book Chapters

Özgan S.Y., Özkar. M., 2019 , [The Dividing of the Sphere in Domes of Medieval Anatolia](#), in Faces of Geometry. From Agnesi to Mirzakhani (ed. P. Magnaghi-Delfino et al.), Lecture Notes in Networks and Systems 88, Springer Nature Switzerland AG 2020, https://doi.org/10.1007/978-3-030-29796-1_15

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 Calcatene), Lit Verlag, Vienna-AUSTRIA, ISBN: 978-3-643-90495-9

Conference Proceedings

Özkar. M., B.Hamzaoglu, Özgan S.Y., 2019, [A Historical Perspective to Fabrication in Architecture for Preserving Heritage](#), in Architecture in the Age of the 4th Industrial Revolution :*Proceedings of the 37th eCAADe & 23th Sigradi Conference*

Özgan S.Y., Özkar. M., 2018, [A Reading of the Effects of Material and Craft Techniques on the Application of Geometric Patterns with a Focus on Tile-Mosaic](#), in CRAFTARCH'18 International Art Craft Space Congress Proceedings Book, Egitim Publishers, Konya - TURKEY, E-ISBN: 978-605-7557-56-8

Özgan S.Y., Sevmen D., 2015, [Recalling The Heritage Of Ancient Wreath Designs: An Exploration Of The Computation In Making](#), in 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

Sağlar-Onay N., Özkan T., Özgan S.Y., [Investigating and Interpreting the Interior Architectural Postgraduate theses in Turkey](#), in Proceedings of the 1st National Postgraduate Studies Conference in Interior Architecture, ITU, Istanbul - Turkey

Özgan, S.Y., Demir, Y., 2013, [Use Of Augmented Reality Technologies In Cultural Heritage Sites; Virtu\(Re\)Al Yenikapi](#), Proceedings of the VII. National Computational Design in Architecture Conference "Computational Design, Entropy, Creativity", 27-28 June 2013, ITU Mimarlik Fakültesi Matbaasi, Istanbul-TURKEY, ISBN: 978-975-561-437-3

Conference & Seminar Presentations

• 37th eCAADe & 23th Sigradi Conference: Architecture in the Age of the 4th Industrial Revolution, Porto- Portugal, 11-13 September 2019, paper presentation, "[A Historical Perspective to Fabrication in Architecture for Preserving Heritage](#)"

• Faces of Geometry: from Agnesi to Mirzakhani, International Conference, Politecnico Milano, 13 May 2019, Milan - Italy, paper presentation "[The Dividing of the Sphere in Domes of Medieval Anatolia](#)"

• CRAFTARCH'18 International Art Craft Space Congress, 5-7 December 2018, Konya - Turkey, paper presentation "[A Reading of the Effects of Material and Craft Techniques on the Application of Geometric Patterns with a Focus on Tile-Mosaic](#)"

• EUSIPCO 2017 "Creative Design and Advanced Manufacturing: An Emerging application area for Signals and Systems" workshop, 2 September 2017, Kos Island- Greece, Research Presentation "[How Material and Making Alters Visual Computation: The Traditional Art of Tile Mosaic](#)"

• Ornamental Gaze Workshop, Istanbul Bilgi University, 08 August 2017, Istanbul - Turkey, Invited Seminar Presentation "[Patterns & Surfaces : An Inquiry on Geometrical Relations](#)"

• 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](#)"

• 19th International Conference of the The Iberoamerican Society of Digital Graphic (SIGRADI), 23-27 November 2015, Florinapolis - Brazil, Paper Presentation "[Recalling The Heritage Of Ancient Wreath Designs: An Exploration Of The Computation In Making](#)"

• The British Museum Creating Museums of World Stories Workshop, 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](#)"

• Computational Problems in Creative Design With Shapes Workshop, Massachusetts Institute of Technology (MIT), 12-13 June 2015, Boston - USA, Research Presentation "[Geometric Patterns and Distorted Dodecahedrons](#)"

• National Postgraduate Studies Conference in Interior Architecture, 26-27 February 2015, Istanbul - Turkey, 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, Kyoto - Japan, Paper Presentation "[Playing by the Rules: Design reasoning in Escher's creativity](#)"

• Seventh International Conference on Design Principles and Practices, 2013 Chiba-JAPAN, "[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 Yenikapı”

Research Projects

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) , Research Head: Prof.Dr. Mine Özkar

Workshops (tutor and project coordinator)

- **Design and Build Studio: Yerevan**, in collaboration with NUACA University, tutors: Sibel Y. Özgan, Avşar Karababa and Arthur Yeghikyan, 24.06 - 10.07 2019, Yerevan, ARMENIA, funded by the Hrant Dink Foundation.
- **Curve Make-ing**, a workshop exploring different parameters of historical pattern production techniques through digital fabrication , tutors: Begüm Hamzaoğlu and Sibel Y. Özgan, 18.05.2019, Istanbul Technical University, Istanbul-Turkey.
- **Geodesic Alterations: Explorations on Part Variations**, Izmir University of Economics, tutors: Sibel Y. Özgan, Ezgi Baştuğ, 2-3 February 2018, Istanbul - TURKEY
- **Interaction Where? Under the Bridge**, a workshop organization for the international conference CAADFutures 2017: future trajectories of computation in design, tutors: Tuba Özkan, Sibel Y. Özgan, 11 July 2017, Istanbul - TURKEY
- **Polyhedral Tessellations a Workshop on 2D and 3D Pattern Transformations**, a workshop organization for the international conference CAADFutures 2017: future trajectories of computation in design, tutors: Sibel Y. Özgan, Begüm Hamzaoğlu, 10 July 2017, Istanbul - TURKEY
- **Conversation with Crafts: Mud, Wood, Metal, Textile, Bamboo**, International workshop as part of the IMIAD (International Master in Interior Architectural Design) Program, 2-13 September 2015, Cept University, Ahmadabad-INDIA, *project leader and tutor of the craft group metal*
- **Dynamics of Space**, 10. Annual German-Turkish Interior Architects Meeting, tutors: Frederico Fialho Teixeira, Sibel Y. Özgan, 20-25 November 2012, Istanbul - TURKEY

Workshops (participant)

- **The British Museum, Creating Museums of World Stories**, Chhatrapati Shivaji Maharaj Vastu Sangrahalaya (CSMVS), 2015, Mumbai-INDIA, (tutor: Dr. Ian Jenkins - the British Museum), *attendance with full scholarship*
- **Vertical Interventions - Architectural Association (AA) Istanbul Visiting School**, 2013, Istanbul - Turkey (tutors: Elif Erdine, Alexandros Kallegias, Dağhan Çam, Müge Belek, Frederico Fialho Teixeira - Architectural Association) *attendance with full scholarship*
- **New Water Front Design for Thessaloniki: Urban Re-Generation**, international design workshop, 2011, Thessaloníki - Greece
- **Parametric Synthesis**, International Parametric design workshop, 2010, Istanbul - Turkey (tutor: Luis Fraguada - Institute for Advanced Architecture of Catalonia (IAAC))
- **Towards a new Mobility : Advanced Digital Architectural Design (ADAD)**, international summer school, 2010, Detmold - Germany, (collaboration between: University of Plymouth -UK, Politecnico di Milano - Italy, Hochschule Ostwestfalen-Lippe, Detmolder Schule-Germany, Università degli Studi Roma Tre- Italy, Fumec - Brazil, Istanbul Technical University - Turkey)
- **Istanbul Transitions: Integral Design Strategies**, international architectural design workshop, 2010, Istanbul - Turkey (tutors: Wolf Mangelsdorf (Buro Happold), Christian Veddeler (UNStudio) and Prof. Holger Hoffmann (FH Trier))
- **Re:mix Petrazalka**, international architectural design workshop, 2008, Bratislava - Slovakia, (tutors: Roberty Neumayr, Michael Budig - University of Applied Arts Vienna)
- **IMIAD San Bernardino : Architecture, Design, Tourism**, international workshop as part of the International Master in Interior Architectural Design (IMIAD) program, 2006, San Bernardino - Switzerland (collaboration between: HFT Stuttgart University of Applied Sciences-Germany, ITU Istanbul Technical University-Turkey, SUPSI Scuola Universitaria Professionale della Svizzera Italiana-Switzerland, Lahti Polytechnic - Finland, ECA-Edinburgh Collage of Arts-Scotland)