## AYSU BERK HAZNEDAROĞLU

Assistant Professor Department of Architecture Faculty of Art, Design and Architecture Bilkent University, Ankara, Turkey

## **EDUCATION**

Assistant Professor Department of Architecture, Bilkent University	2017 - ongoing
ACADEMIC EMPLOYMENT	
Bachelor of Science in Civil Engineering, Middle East Technical University, Ankara.	2003
Master of Science in Architecture, Middle East Technical University, Ankara.	2005
Master of Science in Civil Engineering, Middle East Technical University, Ankara.	2006
Ph.D. in Architecture, University of Michigan, Ann Arbor.	2012

Instructor Department of Architecture, Bilkent University	2013-2017
Teaching Assistant	2000 2012

 Teaching Assistant
 2008-2012

 Taubman College of Architecture and Urban Planning (TCAUP), University of Michigan

#### Research Assistant

Taubman College of Architecture and Urban Planning (TCAUP), University of Michigan	<sup>&gt;</sup> ), University of Michigan
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### PROFESSIONAL EMPLOYMENT

Acarlar Construction Inc., Bulgaria Highway Construction Project, Ankara.	2005
Gama Holding, Qatar Embassy and Residence Project, Ankara.	2002
Ahsel Construction, Bag-kur Headquarter Building Project, Ankara.	2001

### ARTICLES IN REFEREED JOURNALS

Berk A., Giles H. "Quadrilateral Panelization of Freeform Surface Structures", **Automation in Construction**. Vol. 76, 36-44, April 2017.

Yanmaz A.M., Caner A., and Berk A. "Renovation of a Safety-Inspection Methodology for River Bridges", Journal of Performance of Constructed Facilities, ASCE, Vol.21, No:5, 382-389, October 2007.

2006-2012

## ARTICLES IN REFEREED PROCEEDINGS

Giles H. and Berk A. "Discretization Solutions for the Construction of Free Form Complex Surface Structures". Structures and Architecture. Proceedings of 2<sup>nd</sup> International Conference on Structures and Architecture, Guimaraes, Portugal. July 24-26, 2013. Paulo J.S. Cruz (ed.). CRC Press: Leiden. 2013, pp. 791-798

Berk A. and Ünay A.I. "Teaching Structures to Architecture Students: Examples from Bridge Design". Structures and Architecture. Proceedings of 1<sup>st</sup> International Conference on Structures and Architecture, Guimaraes, Portugal. July 21-23, 2010. Paulo J.S. Cruz (ed.). CRC Press: Leiden. 2010, pp. 870-876

Berk A., Örmecioğlu H.T., and Akan A.E. "Cumhuriyet Donemi Tarihi Karayolu Koprulerinin Korunmasinda Bir Secim Yontemi Denemesi". Proceedings of 2<sup>nd</sup> Symposium on Strengthening and Preserving Historical Buildings and Cultural Heritage, Diyarbakir, Turkey. October 15-17, 2009. TMMOB Chamber of Civil Engineering. Kardelen: Ankara. 2009. pp 61-73

# ARTICLES PRESENTED in REFEREED CONFERENCES

Berk A. and Örmecioglu, H.T. "A Framework for Evaluation and Assessment of Proto-modern Bridges" in Istanbul Bridge Conference, Istanbul, Turkey. August 11-13, 2014.

Giles H. and Berk A. "Complex Surface Construction using Planar Quadrilateral Meshing" in IABSE-IASS Symposium, London, United Kingdom. September 20-23, 2011.

Ormecioğlu, H.T. and Berk A. "An Inspection Method for Assessment of Proto-Modern Road Bridges" in IABSE-IASS Symposium, London, United Kingdom. September 20-23, 2011.

Caner A., Yanmaz A.M., and Berk A. "Remarks on Development of a Safety-Inspection Algorithm for River Bridges" in 7th International Congress on Advances in Civil Engineering, Yildiz Technical University, Istanbul, Turkey. October 11-13, 2006.

## OTHER PUBLICATIONS

### Ph.D. Dissertation

"A Structural Basis for Surface Discretization of Free Form Surfaces: Integration of Geometry, Materials and Fabrication." University of Michigan, Ann Arbor, MI. December 2012.

### M.Sc. Theses

"Development of a Safety-Inspection Methodology for River Bridges." METU, Ankara. July 2006.

"Geometrical Analysis of Bridge Forms and Their Feasibility in Structural Design." METU. Ankara. May 2005.

## **INVITED LECTURES AND TALKS**

"Structures", Guest Lecturer for FA102, Faculty of Art, Design & Architecture (FADA), Bilkent University, Ankara, February 2020, July 2020, February 2021, July 2021.

"Structure and Structural Systems", Guest Lecturer for Arch202, Department of Architecture, Bilkent University, Ankara, February 2020, January 2018, April 2017

"Structural Forms: Form-Design-Construction", Guest Lecturer for Studies on Architectural Structures (graduate course), Department of Architecture, Middle East Technical University, Ankara, November 2018.

"Architecture & Structure: Structural Form", Guest Lecturer for Current Issues in Architectural Design (graduate course), Department of Architecture, Bilkent University, Ankara, April 2018.

"Thinking Structures", Guest Lecturer for Arch201, Department of Architecture, Middle East Technical University, Ankara, October, 2017

"Quadrilateral Panelization of Freeform Surface Structures", Faculty of Art, Design and Architecture, Bilkent University, Ankara, March 2017,

"Architectural Geometry", Faculty Lecture Series - Spring2014, Bilkent University, Ankara, March 2014.

### DUTIES

Member of the Faculty Executive Board Faculty of Art, Design and Architecture, Bilkent University	2021 – ongoing
Member of the Graduate Program Committee Faculty of Art, Design and Architecture, Bilkent University	2021 – ongoing
Member of the Summer Internship Committee Faculty of Art, Design and Architecture, Bilkent University	2021 – ongoing
Member of the QME team Faculty of Art, Design and Architecture, Bilkent University	2019 – ongoing
Acting Chair Department of Architecture, Bilkent University	2019 - 2020
Member of the DAF Committee Faculty of Art, Design and Architecture, Bilkent University	2019 – 2021
Member of the Faculty Board Faculty of Art, Design and Architecture, Bilkent University	2018 – 2020
Aysu Berk Haznedaroğlu, CV, January 2022	3

Member of Recruitment Committee Department of Architecture, Bilkent University	2017 – ongoing
Coordinator for Summer Internship Courses (Arch290, Arch390) Department of Architecture, Bilkent University	2017 – ongoing
Coordinator for Structure Courses (Arch231, Arch331, Arch332) Department of Architecture, Bilkent University	2015 – ongoing
Member of the Technical Committee Department of Architecture, Bilkent University	2014 – 2015

## THESIS SUPERVISED

Berin Barut, M.Sc. Thesis, Architecture, Bilkent University Architecture and Cinema: Analysis of the Relationship between Narrative and Christopher Nolan's "The Dark Knight Triology".	<b>9/2017 – 11/2020</b> d Architectural Space in
Münevver Duygu Gökoğlu, M.Sc. Thesis, Architecture, Bilkent Universit Revealing The Potential of Human-Centered Design in Architecture	ty 9/2017 – 03/2021
Naciye Kara, M.Sc. Thesis , Architecture, Bilkent University A Survey on The Emotional Responses of Users to Building Forms: Manipulated Curvilinearity,	<b>9/2018 – 09/2021</b> Focusing on Digitally
<b>İrem Merve Makinacı, M.Sc. Thesis , Architecture, Bilkent University</b> 9/2019 – in progress Reflections of Form and Structure Relations on Sustainability Characteristics in Post-Expo Period,	
Beliz Sunsal, M.Sc. Thesis, Architecture, Bilkent University Analysis of modular construction on the cases of emergency buildings.	9/2019 – in progress
Nadide Pınar Oktar, M.Sc. Thesis , Architecture, Bilkent University Structure-form Relationship of Freeform Surfaces: An investigation through C	<b>9/2020 – in progress</b> ase Studies
KhawajaTalha Ejaz, M.Sc. Thesis , Architecture, Bilkent University Evolution of Form Finding Methods and corresponding Structural Efficiency o	
Shahzeb Khan, M.Sc. Thesis , Architecture, Bilkent University	9/2021 – in progress

Thesis subject: Not determined yet

## AWARDS/HONORS/GRANTS

Shen Milsom Wilke Scholarship, University of Michigan, Fall 2012
U-M Graduate Teaching Certificate, University of Michigan, Winter 2012
Architecture Merit Award, University of Michigan, Winter 2009
Rackham Graduate Student Assistant Fellowship, University of Michigan, 2006 – 2008

### MEMBERSHIP

Turkish Association for Bridge & Structural Engineering.	2017 – ongoing
Building Technology Educators' Society (BTES)	2014 – ongoing
International Association of Shell and Spatial Structures (IASS).	2011 – ongoing
Turkish Chamber of Civil Engineers (TMMOB İnşaat Mühendisleri Odası)	2003 – ongoing