

AYSU BERK HAZNEDAROĞLU

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

EDUCATION

Ph.D. in Architecture, University of Michigan, Ann Arbor, 2012.

Master of Science in Civil Engineering, Middle East Technical University, Ankara, 2006.

Master of Science in Architecture, Middle East Technical University, Ankara, 2005.

Bachelor of Science in Civil Engineering, Middle East Technical University, Ankara, 2003.

ACADEMIC EMPLOYMENT

Assistant Professor, Department of Architecture, Bilkent University, 2017 - ongoing

Instructor, Department of Architecture, Bilkent University, 2013 - 2017

Teaching Assistant, Taubman College of Architecture and Urban Planning (TCAUP), University of Michigan, 2008-2012

Research Assistant, Taubman College of Architecture and Urban Planning (TCAUP), University of Michigan, 2006-2012

PROFESSIONAL EMPLOYMENT

Acarlar Construction Inc., Bulgaria Highway Construction Project, Ankara, 2005

Gama Holding, Qatar Embassy and Residence Project, Ankara, 2002

Ahsele 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.

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 2nd 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 1st 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., Örmeciöğlü H.T., and Akan A.E. "Cumhuriyet Donemi Tarihi Karayolu Koprulerinin Korunmasında Bir Secim Yontemi Denemesi". Proceedings of 2nd 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 Örmeciöğlü, 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.

Örmeciöğlü, 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, Yıldız 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." December 2012, University of Michigan, Ann Arbor, MI

M.Sc. Theses

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

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

INVITED LECTURES AND TALKS

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

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

"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 – Spring 2014, Bilkent University, Ankara, March 2014.

THESIS SUPERVISED

M.S. in Arch Theses

Berin Barut, Architecture and Cinema: Analysis of the Relationship between Narrative and Architectural Space in Christopher Nolan's "The Dark Knight Trilogy". 9/2017 – 11/2020

Münevver Duygu Gökoğlu, Revealing the Potential of Human Centered Design in Architecture, 9/2017 – expected graduation: 03/2021

Naciye Kara, An Evaluation on the Emotional Responses of Users to Organic/Digital Building Forms, 9/2018 – expected graduation: 06/2021

İrem Merve Makinacı, Reflections of Form and Structure Relations on Sustainability Characteristics in Post-Expo Period, 9/2019 – expected graduation: 09/2021

Beliz Sunsal, Analysis of modular construction on the cases of emergency buildings, 9/2019 – expected graduation: 09/2021

Nadide Pınar Oktar, thesis subject not determined, 9/2020 – expected graduation: 6/2022

Khawaja Talha Ejaz, thesis subject not determined, 9/2020 – expected graduation: 6/2022

DUTIES

Member of the QME Department Team, June 2019 – ongoing

Member of Department of Architecture Recruitment Committee, 2017 – ongoing

Department of Architecture, Summer Internship Coordinator, 2017 – ongoing

Department of Architecture, Structure Courses Coordinator, 2015 – ongoing

Member of the DAF Committee, 09/2019 – 02/2021

Acting Chair of the Department of Architecture, 09/2019 – 09/2020

Member of Faculty Board of Faculty of Art, Design and Architecture, 2018 – 2019

Member of Department of Architecture Technical Committee, 2014 – 2015

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