AYSU BERK HAZNEDAROĞLU

Senior Lecturer 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

Senior Lecturer Department of Architecture, Bilkent University	2024 - ongoing
Assistant Professor Department of Architecture, Bilkent University	2017 - 2024
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
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.

ARTICLES IN REFEREED PROCEEDINGS

Makinacı İ.M. and Berk A. "The Role of Structural System and Building Materials of World Expo Pavilions on Providing Sustainable Solutions for Post-Expo Use", Structures and Architecture A Viable Urban Perspective. Proceedings of the 5th International Conference on Structures and Architecture. Aalborg, Denmark. 6-8 July 2022. Marie Frier Hvejsel and Paulo J.S. Cruz (ed.). CRC Press: London, 2022.

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., Örmecioğlu H.T., and Akan A.E. "Cumhuriyet Donemi Tarihi Karayolu Koprulerinin Korunmasinda 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 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

"Basics of Structures", Guest Lecturer for ARCH102, Department of Architecture, TEDÜ University, Ankara, May 2025.

"Structures", Guest Lecturer for FA102, Faculty of Art, Design & Architecture (FADA), Bilkent University, Ankara, February 2020, July 2020, February 2021, July 2021, March 2023, February 2024.

"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 Summer Internship Committee

2021 - ongoing

Faculty of Art, Design and Architecture, Bilkent University

Member of the QME team

2019 - ongoing

Faculty of Art, Design and Architecture, Bilkent University

Member of Recruitment Committee

2017 – ongoing

Department of Architecture, Bilkent University

Coordinator for Structure Courses (Arch331, Arch332, Arch333)

2015 - ongoing

Department of Architecture, Bilkent University

Acting Chair 2019-2020 & 2024-2025

Department of Architecture, Bilkent University

Member of the Graduate Program Committee 2021 – 2025

Faculty of Art, Design and Architecture, Bilkent University

Member of the Faculty Executive Board 2021 – 2024

Faculty of Art, Design and Architecture, Bilkent University

Member of the DAF Committee 2019 – 2021

Faculty of Art, Design and Architecture, Bilkent University

Member of the Faculty Board 2018-2020 & 2024-2025

Faculty of Art, Design and Architecture, Bilkent University

Coordinator for Summer Internship Courses (Arch290, Arch390) 2017 – 2022

Department of Architecture, Bilkent University

Member of the Technical Committee 2014 – 2015

Department of Architecture, Bilkent University

THESIS SUPERVISED

Berin Barut, M.Sc. Thesis, Architecture, Bilkent University

9/2017 - 11/2020

Architecture and Cinema: Analysis of the Relationship between Narrative and Architectural Space in Christopher Nolan's "The Dark Knight Triology".

Münevver Duygu Gökoğlu, M.Sc. Thesis , Architecture, Bilkent University Revealing The Potential of Human-Centered Design in Architecture 9/2017 – 03/2021

Naciye Kara, M.Sc. Thesis, Architecture, Bilkent University

9/2018 - 09/2021

A Survey on The Emotional Responses of Users to Building Forms: Focusing on Digitally Manipulated Curvilinearity

Irem Merve Makinaci, M.Sc. Thesis, Architecture, Bilkent University

9/2019 - 08/2022

The Role of Structural Systems and Building Materials in Sustainable Post-Expo Use of World Expo Pavilions

Beliz Sünsal, M.Sc. Thesis, Architecture, Bilkent University

9/2019 - 08/2022

The Effect of Modular Systems on Spatial Design and Diversity: Analysis Through Constructed Modular Buildings

Nadide Pinar Oktar, M.Sc. Thesis , Architecture, Bilkent University

9/2020 - 07/2023

Structure-form Relationship of Freeform Surfaces: An investigation through Case Studies

KhawajaTalha Ejaz, M.Sc. Thesis , Architecture, Bilkent University

9/2020 - 08/2023

Evolution of Form Finding Methods and corresponding Structural Efficiency of RC shell structures

Gülce Erincik, M.Sc. Thesis , Architecture, Bilkent University

9/2022 - 06/2024

Comparative Analysis of Low Carbon Wall Materials for Thermal Comfort in Urban Mid-rise Apartments: A Simulation-Based Study in Istanbul

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