

Deniz Üçer Erduran - March 2022

Office: FF-406, Department of Architecture, Bilkent University, Ankara  
E-mail: deniz.ucer@bilkent.edu.tr



### Educational Background

#### **2012-18, Ph.D. Degree, Building Science Program, METU, Ankara, Turkey**

Dissertation: End-Of-Life Analysis for Brick Debris:  
Recovery, Strength, Life Cycle Cost, and Environmental Assessment.  
*Dissertation process with the guidance of Prof. Dr. Soofia Tahira Elias-Ozkan*  
<http://etd.lib.metu.edu.tr/upload/12622796/index.pdf>

2015 and 2017 Fall semesters, Exchange student, Civil Engineering Institute, Peter the Great Polytechnic University, St. Petersburg, Russia - Dissertation process (partial) with the guidance of Dr., Assoc. Prof. Aleksey Ulybin

#### **2009-12, Master Degree, Building Science Program, METU**

Thesis: Life Cycle Assessment of Masonry Wall Types Using Simulation Technique.  
*Thesis process with the guidance of Prof. Dr. Soofia Tahira Elias-Ozkan*  
<https://etd.lib.metu.edu.tr/upload/12614373/index.pdf>

2011 Spring semester, Exchange student, Catholic University Leuven, Belgium - Thesis process (partial) with the guidance of Prof. Dr. Frank De Troyer

#### **2003-07, Undergraduate Degree, Architecture, METU**

### Professional Practice

#### **2021 September – Present, Instructor in Department of Architecture, Bilkent University**

Arch 201, Design Studio I  
Arch 251, Architectural Building Systems  
Arch 331, Structural Design I

#### **2020 September – 2021 June, Part-time instructor in Department of Architecture, Bilkent University**

Arch 201 – 202, Design Studio I - II  
Arch 231, Statics and Strength of Materials

#### **2020 September – 2021 July, Part-time instructor in Department of Architecture, METU**

Arch 331 – 332, Structural Design in Architecture I - II

#### **2019 September – 2020 November, Part-time senior lecturer and post-doc researcher in Civil Engineering Department, Peoples' Friendship University of Russia (PFUR-RUDN) Moscow**

**Graduate Must Courses** for international students in English  
Details of Scientific Research - Industrial Ecology and Sustainable Construction  
**Research Activity:** Urban mining analysis of typical precast housing-blocks in Moscow, Russia

#### **2018 November – April 2019, Volunteer editorial staff, of Scopus-indexed journal "Magazine of Civil Engineering" published by Peter the Great Polytechnic University, St. Petersburg, Russia**

#### **2012-2018 September, Research-Teaching Assistant in Building Science Program, METU**

Arch 190, Internship, Practice in Building Construction & Surveying  
Arch 203 – 204, Digital Media in Architecture I - II  
Arch 231 – 232, Architectural Engineering I - II  
Arch 251 – 252, Building Materials Technologies - Building Construction Technologies  
Arch 326, Hands on Building Practice  
Arch 331 – 332, Structural Design in Architecture I - II  
Arch 351, Architectural Detail Modeling  
Arch 381 – 382, Environmental and Building Systems - Environmental Control Technologies  
Arch 452, Professional Practice  
Partial contribution to design studio group, Arch 301, (Instructor Erkin Aytac)

2017 – Present, Kinik Hoyuk Archaeological Project, display of a sculpture, design and installation of a vitrine in Niğde Museum, Turkey.

<https://isaw.nyu.edu/news/hellenistic-finds-from-isaw2019s-excavations-at-nigde-kinik-hoyuk-turkey>

<https://www.milliyet.com.tr/yerel-haberler/nigde/kazida-bulunan-eserler-muzede-sergileniyor-6572530>

2015 and 2017 Fall semesters, Volunteer assistant, Graduate Elective Course: Inspection of Buildings and Constructions (by Dr., Assoc. Prof. Aleksey Ulybin) in Civil Engineering Institute, Polytechnic University, St. Petersburg, Russia

**Before 2012, Office and Construction Site** (Shop drawings and control of the constructions)

Kolektif Mimarlık (Zeynep Önen, Rasim Özveren) - Ankara

Charles de Gaulle Lycee – Incek, Ankara

Additions and Alterations to the Canadian Embassy Residence – Ankara

**Before 2007, Internship**

Erkut Şahinbaş - İzzet Fikirlier Architectural Office, Ankara

MATPUM Construction Site – METU, Ankara

Kerkenes Eco-center, Yozgat

AutoCAD Course, Chamber of Architects, Ankara Branch

**Symposia/workshops**

2022- March, “Circulating Boundaries” Workshop, Faculty of Architecture, Yasar University, Izmir

<https://farch.yasar.edu.tr/en/workshop/>

2020- May, “Urban Mining a Case of Housing Blocks in Moscow, Russia”, International Webinars, Faculty of Architecture & Planning - Parul University, India

<https://www.facebook.com/FacultyofArchitecturePUGJ13/videos/590862418196802>

2015-May, “Assessing the environmental impact of five different life cycle scenarios for brick masonry wall”, 2nd International Sustainable Buildings Symposium, Ankara (with Prof. Dr. Soofia Elias-Ozkan).

<http://isbs2015.gazi.edu.tr/belgeler/bildiriler/925-931.pdf>

2014-July, “Geometric comparison of two periods’ masonry design and assembly: Early Ottoman Domes and Recent Parametric Walls”, 9th International Masonry Conference, Guimarães Portugal (with Prof. Dr. Omur Bakirer, Soofia Elias-Ozkan and Res. Assist. Betül Kurtulus) with the financial support of AKG Gazbeton.

2013-April, “Assessing recovery rates of reusable units in masonry construction” Reclaim+Remake symposium, Catholic University, Washington DC. USA (with Prof. Dr. Soofia Elias-Ozkan) with the financial support of TUBITAK.

**Publications**

Casagrande-Kim, Roberta, Deniz Üçer Erduran, Emily Frank, and Izel Güngör. "From Excavation to Vitrine: The Afterlife of Late Hellenistic Bovine Terracottas from Niğde Kınık Höyük." *Near Eastern Archaeology* 85, no. 1 (2022): 44-53.

<https://www.journals.uchicago.edu/doi/10.1086/718420>

Üçer Erduran, D. & Demirel, İ. O. & Elias-Ozkan, S. T. (2021). Yıkımla oluşan tuğla atığının analizi ve yeniden kullanım önerisi [Analysis on brick debris generated by demolition and proposal for its reuse]. *Journal of the Faculty of Engineering and Architecture of Gazi University*, No. 36:4, 1923-1938.

<https://dergipark.org.tr/en/pub/gazimmfd/issue/64589/624512>

Ucer Erduran, D. (2020). Precast Block Houses Built in the 1950s and Urban Mining Potential. *Construction of Unique Buildings and Structures*. Volume 91, Article No 9102.

<https://unistroy.spbstu.ru/en/article/2020.91.2/>

Üçer Erduran, D. & Elias-Ozkan, S. T. & Ulybin, A. (2020). Assessing potential environmental impact and construction cost of reclaimed masonry walls. *The International Journal of Life Cycle Assessment*, No. 25, 1-16.

<https://link.springer.com/article/10.1007/s11367-019-01662-2>

Bespalov, V.V. & Ucer, D. & Salmanov, I.D. & Kurbanov, I.N. & Kupavykh S.V. (2018). Deformation compatibility of masonry and composite materials. *Magazine of Civil Engineering*, No. 2, 136-150.

<https://elib.spbstu.ru/dl/2/j18-511.pdf/en/view>

Ucer, D. & Ulybin, A. & Zubkov, S. & Elias-Ozkan, S. T. (2018). Analysis on the Mechanical Properties of Historical Brick Masonry after Machinery Demolition. *Construction and Building Materials*, 161, 186–195.  
<https://www.sciencedirect.com/science/article/pii/S0950061817322997>

**Editing activity**

Ucer, D. & Ozcakil, O. (editors) (2014) Turkish shooting and hunting federation (TAF) 90<sup>th</sup> anniversary capital polygon complex architectural project competition. *METU Journal of Faculty of Architecture*, No.2, 245- 249.  
Address: [http://jfa.arch.metu.edu.tr/archive/0258-5316/2014/cilt31/sayi\\_2/245-250.pdf](http://jfa.arch.metu.edu.tr/archive/0258-5316/2014/cilt31/sayi_2/245-250.pdf)

**Software Skills:** SimaPro (LCA simulation), AutoCAD, Rhinoceros, Revit (beginner), Photoshop, MS Office

**Languages:** Turkish- native, English- fluent, Russian- basic

**Other: Ceramic forming,** Biskuit Ceramic Studio – St. Petersburg, Russia; Atölye Çamurdan – Ankara, Turkey; Studio Pottery Dhc-Tvorec – St. Petersburg; Christiane Zegers Keramiek Atelier – Leuven, Belgium; Ceramic forming classes I and II – Industrial Design Department, METU, Ankara. Collective ceramic exhibition with Atölye Çamurdan in Galeri Çankaya, Ankara, 2017.