

Deniz Üçer Erduran - October 2024
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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

Ada 131, Architectural Drawing
Arch 201 – 202, Design Studio I - II
Arch 231, Statics and Strength of Materials
Arch 251 – 252, Architectural Building Systems, Construction and Materials
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 – 2022, Kinik Hoyuk Archaeological Project, display of a sculpture; design, and installation of a vitrine in Nigde 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

Conferences/Symposia/workshops/seminars/lectures

2024-October, “Material Circularity in Demolition, and Design for Innovative Reuse” by Üçer Erduran, Deniz. ATI Conference [International Conference on Architecture, Technology and Innovation], İzmir, Türkiye.

2024-May, “Cultural Heritage, Demolition, Deconstruction, Mechanical Properties of Materials, Possible Reuse” by Üçer Erduran, Deniz. Lecture for conservation program, ARCH 615 Architectural Research Methods and Ethics, Faculty of Architecture, METU, Ankara.

2024-May, “The Stabilization of a Hellenistic Square at Nigde Kinik Hoyuk, Turkey” by Ucer Erduran, Deniz (corresponding); Yolacan, Burak; d'Alfonso, Lorenzo. REHABEND Congress, [Construction Pathology, Rehabilitation Technology and Heritage Management] Gijon, Spain.

2024-April, “Kaçınılmaz Yıkım Yapı Malzemelerinin Durumu ve Yeniden Kullanım Potansiyeli Beton Dayanımı Analizi: 100. Yıl Çarşısı ve Ofis Kompleksi, Ankara, Türkiye” Üçer Erduran, Deniz. Türkiye'nin Modern Miras Gündemi 2022/2023. Online.

<https://www.youtube.com/watch?v=DP27uooeoeE&t=2540s>

2024- February, “Structure Systems with a focus on the works of Santiago Calatrava” Lecture for ARCH 302 studio, Faculty of Architecture, METU, Ankara.

2023- October, “An Investigation on Common End-of-Life Management of Construction Materials in Turkey- Türkiye'de İnşaat Malzemelerinin Yaygın Yaşam Sonu Yönetimi Üzerine bir İnceleme”, 11. Ulusal Katı Atık Yönetimi Kongresi - Ukay 2023, Ardahan, Turkey.

2023- September, “Common End-of-Life Management of Construction Materials in Ankara, Turkey and a Proposal for Improvement”, The 11th International Conference on Life Cycle Management, Lille, France. With the financial support of TUBITAK and DAF Bilkent.

2023- March, “Structure Systems” Lecture for ARCH 302 studio, Faculty of Architecture, METU, Ankara.

2022- March, “Circulating Boundaries, one more step in the circle; combining household waste into house walls” Workshop with Assist. Prof. Dr. Matthieu Pedergnana, Faculty of Architecture, Yasar University, Izmir, Turkey.
<https://farch.yasar.edu.tr/en/workshop/>

2022- March, “Structure Systems” Lecture for ARCH 302 studio, Faculty of Architecture, METU, Ankara.

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, Turkey. (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

[Manuscript under review] Pucci, M.; **Üçer, D.**; d’Alfonso, L.; Yolaçan, B. (----). Missione archeologica a Kınık Höyük. Le opere di conservazione e restauro. [Dün ve bugün Anadolu’da arkeoloji ve toplum: sürdürülebilirlik ve faydalar arasında deontolojik bir diyalog]

[Manuscript submitted to The Design Journal, under review] - **Ucer Erduran, D.** & Yolacan, B. (----). Design Process in Collaboration with Archaeology: Contemporary Exhibition of a Hellenistic Statue.

(SCI-E, Q2) **Üçer Erduran, D.**, Yolaçan, B., & d’Alfonso, L. (2024). The Stabilization of a Hellenistic City Square (Plaza) at the Kınık Höyük Archeological Site, Niğde Province, Türkiye. Buildings, 14(9), 2719.

(DAAD) **Ucer Erduran, D.** & Pedernana, M. (2022). Atık malzemelerden duvar paneli üretme atölyesi [Wall panel production workshop using waste material]. Ege Mimarlık Dergisi, No:116.
<https://www.egemimarlik.org/cevirim-ici-okuma/116/1818>

(AHCI) - Casagrande-Kim, R. & **Üçer Erduran, D.** & Frank, E. & Güngör, I. (2022). From Excavation to Vitrine: The Afterlife of Late Hellenistic Bovine Terracottas from Niğde Kınık Höyük. Near Eastern Archaeology 85, no. 1: 44-53.
<https://www.journals.uchicago.edu/doi/10.1086/718420>

(SCI-E, Q3) - **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>

(RSCI) - **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/userfiles/files/2020/6\(91\)/9102.pdf](https://unistroy.spbstu.ru/userfiles/files/2020/6(91)/9102.pdf)

(SCI-E, Q2) - **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>

(SCOPUS, Q1) - 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>

(SCI-E, Q1) - **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

(AHCI) Ucer, D. & Ozcakir, O. (editors) (2014) Turkish shooting and hunting federation (TAF) 90th 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

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

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

Literature

2024- Ocak, “**Şanslı Misket**”, Seçki kitabı, Umudun Çukurovası Öykü Yarışması, Derleyen Süreyya Köse, Adana, Türkiye.

2023- Mayıs, “**Fesleğenden Lavantaya bir Yapı Sarmalı**”, Mansiyon ödülü, Mimar Gözüyle Mekan Anlatımı Metin Yarışması, Lefkoşa, Kıbrıs.

<https://doc.mimarlarodasi.org/assets/docs/mimarca-mekan-yarisma-v-kitapcik-web.pdf>

Other:

2007-2020, **Ceramic forming**

Biskuit Ceramic Studio – St. Petersburg, Russia;

Atölye Çamurdan – Ankara, Turkey;

Studio Poterry Dhc-Tvorec – St. Petersburg;

Christiane Zeghers 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.