

Oğuzhan Çetindemir

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Antalya International University
Department of Civil Engineering
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RESEARCH INTERESTS

Earthquake and Structural Engineering
Performance-Based Design
Seismic Performance of Cable-Stayed Bridges
Bridge Engineering
Earthquake Resistant Design of Steel Structures
Finite Element Method and Software Applications
Strong Ground Motion

EDUCATION

Gebze Technical University, Kocaeli, Turkey
Ph.D., Structural Engineering

2017-Presently Pursuing

Gebze Technical University , Kocaeli, Turkey
M.S., Earthquake and Structural Engineering

2009-2011

Thesis Advisor : Prof. Bülent Akbaş

M.S. Thesis: “Seismic Performance Evaluation of Cable-Stayed Bridges with Steel Deck”

Master’s committee: Bülent Akbaş (Advisor, Gebze Ins. Tech., Dep. Eq. & Struc. Eng), Yasin Fahjan (Gebze Ins. Tech., Dep. Eq. & Struc. Eng) , Bilge Doran (Yıldız Technical University, Struc. Eng.)

University of Kocaeli, Kocaeli, Turkey
B.A. Civil Engineering

2005-2009

University of Kocaeli, Kocaeli, Turkey
English Preparatory School

2004-2005

PROJECTS

Gebze Institute of Technology, Department of Earthquake and Structural Engineering

Spring 2010, Final Project; “A Five-Story Office Building’s Design Project” Concentrically Braced Frame in one direction, Ordinary Moment Frame in the other direction (According to AISC and Turkish Earthquake Code 2007) **Advanced Steel Structures**

Spring 2010, Final Project; “Seismic Design of A Seven-Story Steel Braced Frames Office Building.” (According to AISC and Turkish Earthquake Code 2007) **Earthquake Resistant Design of Steel Structures**

Spring 2010, Final Project; “Performance-Based Seismic Design of A Five-Story Office Building” (According to Turkish Earthquake Code 2007, Pushover Analysis by using Sap2000 and XTRACT) **Performance-Based Seismic Design**

Fall 2010, Final Project; “Making an Earthquake Simulation for an identified location by using SIMQKE-TARSCHE and Seismosignal”- **Strong Ground Motion**

Spring 2010, Masters Seminar II; “Plate Girder Bridges.”

Fall 2010, Masters Seminar I; “Steel Highway Bridges And Design Factors To Be Considered.”

University of Kocaeli, Department of Civil Engineering

Spring 2009, Graduation Study; “Static Analysis and Modeling of a Cement Factory Store.”

Spring 2009, Prestressed Concrete, Research Project; “Effect of aggregate on the fracture behavior of high strength concrete.”

Spring 2008, Soil Mechanics-II, Design Project; “Retaining Wall Design.”

Spring 2007, “Strengthening of Masonry Structures Against Earthquake Hazard.”

Spring 2007, Transportation, Design Project; “Highway Design.”

PROFESSIONAL EXPERIENCES

TEKNİK GRUP YAPI DENETİM LTD. ŞTİ. KARTAL/İSTANBUL - Control Engineer 2010- 2011

SİSKA İNŞ. TAAH. MİM. MÜH. A.Ş. – Kartal City Hall Central Multi-Storey Car Park and Business Center KARTAL / İSTANBUL – Intern / 2008-2009

TURAN HAZİNE DAROĞLU İNŞ. TİC. A.Ş. – Tuzla Hilal Residences, 2nd Stage 3rd Region Residence and Social Facilities TUZLA/ İSTANBUL – Intern / 2007-2008

ACADEMIC EXPERIENCE

Antalya International University, Antalya, Turkey

October 2016- Present

Department of Civil Engineering

Title : Research Assistant

TEACHING EXPERIENCE

Antalya International University, Antalya, Turkey

October 2016- Present

Teaching Assistant

Statics (Undergraduate level) • Problem solving sessions • Grading of Homeworks, Midterms and Finals • Office hours • Online course materials (61 students)

Reinforced Concrete II (Undergraduate level) • One Way Slab Design Project • Tekla Structures Education • Grading of Projects and Finals • Office hours (21 students)

Structural Analysis I (Undergraduate level) • Grading of Homeworks and Finals • Office hours (45 students)

2017-Spring

Teaching Assistant

Structural Analysis I (Undergraduate level) • Grading of Quizzes, Midterms and Finals • Office hours (41 students)

Reinforced Concrete I (Undergraduate level) • Grading of Projects and Finals • Office hours (30 students)

Design of FRP Composite Structures (Undergraduate level) • Grading of quizzes, Midterms, Finals • Office hours (21 students)

Engineering Drawing • Hand Drawing Sessions • AutoCad 2017 Education • Office hours • Online course materials (99 students)

PUBLICATIONS

Conference Papers

Çetindemir, O., Akbaş, B., Fahjan, Y., Shen, J., **Nonlinear Dynamic Analysis of Long-Span Cable-Stayed Bridges and Modeling Issues**, 2nd Symposium on Bridges and Viaducts, 28-30 September 2011, Eskisehir, Turkey.

Çetindemir, O., Akbaş, B., **An Evaluation on Overstrength Factors of Reinforced Concrete Buildings**, 4th International Conference on Earthquake Engineering and Seismology October 11-13, 2017 – Anadolu University – Eskisehir/Turkey (**Ongoing**)

Research Experience

Peer- Reviewed Journal Paper; A 3-D finite element model to investigate nonlinear dynamic behavior of long-span cable-stayed bridge under extreme loadings (Ongoing), 2017 (*Advisor; Assistant Professor Dongkeun Lee*)

Conference Paper; Nonlinear Dynamic Analysis of Long-Span Cable-Stayed Bridges and Modeling Issues, 2011 (*Advisor; Prof. Dr. Bülent Akbaş*)

M.S. Thesis; “*Seismic Performance Evaluation of Cable-Stayed Bridges with Steel Deck*”,
2010-2011 (Advisor; Prof. Dr. Bülent Akbaş)

SCHOLARSHIPS, AWARDS, AND HONORS

Honor Student, University of Kocaeli, 2005-2006.

Honor Student, University of Kocaeli, 2008-2009.

LANGUAGES

English; fluent and **Turkish;** native

University of Kocaeli, Kocaeli, Turkey
English Preparatory School

2004-2005

Gebze Technical University

2009-2011

*The Center for Educational Development-English as a Second Language Podcast, Los Angeles,
California (Online Program)*

2011- Present

COMPUTER SKILLS

AutoCAD,
Sap2000,
TEKLA Structures,
STA4-CAD,
MATLAB,
MS Office,
SIMQKE-TARSCTHS,
Seismosignal,
XTRACT

MEMBERSHIP

Turkish Chamber of Civil Engineers, İstanbul Branch, Member since 2009.

REFERENCES

Prof.Dr. Bülent AKBAŞ; Civil Engineering Department, Gebze Technical University

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Assistant Professor Dongkeun Lee; Civil Engineering Department, Antalya International
University

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