

ÖNDER UMUT

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EDUCATION

Istanbul Technical University
Ph.D in Earthquake Engineering

2006 - 2014

Dissertation: Stochastic analysis of wind induced high-rise buildings and parametric assessment of dominant characteristics

Istanbul Technical University
Graduate, Earthquake Engineering

2004 - 2006

Thesis: The effects of near-fault ground motion on structures and the efficiency of isolated-fluid dampers on these structures

GPA: 3.43/4.00

Yıldız Technical University
Undergraduate, Civil Engineering

1999 - 2004

Thesis: The effects of high temperature on the mechanical characteristics of plaster produced with aluminosis cement containing silica fume

GPA: 3.05/4.00

PROFESSIONAL EXPERIENCE

Republic of Türkiye Ministry of Environment, Urbanization and Climate Change
Technical committee member

2023 January-

Işık University
Asst. Prof. - Faculty member

2019 January-

Boğaziçi University, Department of Earthquake Engineering
Senior Researcher; European Union Project "Safeguarding Cultural Heritage through Technical and Organisational Resources Management (STORM)"

2017 – 2018

Işık University
Part time instructor

2017-2019

Boğaziçi University, Department of Earthquake Engineering
Senior Researcher

2015 – 2017

Gebze Technical University
Research Assistant

2010-2014

Gebze Technical University
Evaluation of more than 15 scaffolding systems
Evaluation of structural systems of over 10 buildings within the urban transformation project
Determination of the behavior of wind induced structures
Determination of concrete strength

2010 - 2014

Istanbul Technical University
Determination of earthquake safety of structural systems of over 20 buildings

2007 - 2014

Sismik Yapı - Maya
Control Engineer – Field Engineer

2005

CERTIFICATES

Authorization Certificate for Detection of Risky Buildings within the Scope of Law No. 6306
Sap2000, *İMO Istanbul*
Advanced Level Sap2000, *İMO Istanbul*

2022
2007
2007

Certificate Program of Information Technologies, <i>ODTÜ</i>	2009
Education on the rules for determining structures under risk, <i>T.C. Ministry of Environment and Urban Planning</i>	2013

SCHOLARSHIPS

TÜBİTAK, National postdoctoral research scholarship programme	2006-2013
TÜBİTAK, International scientific funds, 8th International Conference on Structural Dynamics, EURO DYN 2011 Leuven, Belgium	2011

SCIENTIFIC RESEARCH PROJECTS

Boğaziçi University EU research and development Project Horizon 2020 "Safeguarding cultural heritage through technical and organisational resource management"	2017 – 2018
Boğaziçi University Scientific Research Project Number 9003 , "Research on the application of seismic isolations of industrial atmospheric isolated elevated liquid tanks"	2015 – 2017
Boğaziçi University MarDIM Project (Japan-Turkey) Studies of Earthquake Generation and Ground Motion in the Marmara Sea Region and Their Applications to Disaster Mitigation in Turkey	2013 – 2018
Istanbul Technical University Scientific Research Project Number 34453 "Stochastic analysis of wind induced high-rise buildings and parametric assessment of dominant characteristics by using ultrasonic anemometer"	2011 – 2014
İşık University "Yığma Duvarların Düzlem İçi ve Düzlem Dışı Davranışlarının Farklı Sonlu Eleman Yazılımları İle İrdelenmesi (it is on going)	
İşık University "Şile İlçesi için Mevcut Betonarme Binaların Deprem Performanslarının Değerlendirilmesi ve Sonuçların Hızlı Değerlendirme Yöntemleri ile Karşılaştırılması" (it is on going)	

PUBLICATIONS AND PAPERS

Umut Ö., Hasgür Z., "Marmara Bölgesi İçin Temel Rüzgâr Hızlarının Belirlenmesi", <i>Akıllı Dönüşüme Yolculuk Kitabı</i> , 2022	
Umut Ö., Hasgür Z., "Marmara Bölgesi İçin Temel Rüzgâr Hızlarının Belirlenmesi", <i>Mühendislik Uygulamaları Sempozyumu</i> , 2021	
Ö. Umut, S. Kesten and B. Ayva, "Bir Betonarme Gürültü Bariyerinin Akustik ve Yapısal Tasarımı", <i>Betonarme Yapılar Semineri, 6 Şubat 2020, İstanbul Technical University, İstanbul</i>	
Eren Uçkan, Önder Umut, Fatma Nurten Sisman, Shaghayegh Karimzadeh, Aysegül Askan "Seismic response of base isolated liquid storage tanks to real and simulated near fault pulse type ground motions", <i>Soil Dynamics and Earthquake Engineering</i>	2018
Önder Umut, Eren Uçkan Bülent Akbaş, Ken Hatayama, Ayşegül Askan, Fatma Nurten Şişman Spyros A. Karamanos "Seismic response of base isolated liquid containing tanks to real and simulated ground motions" 1st International Conference on Natural Hazards & Infrastructure, Chania, Greece	2016
Eren Uçkan, Önder Umut, Gülen Uncu, Ferit Cakir, Bulent Akbas , Jay Shen. "Seismic Response Of Base Isolated Liquid Storage Tanks To Near Fault Pulse Type Ground Motions" 3rd Turkish Conference on Earthquake Engineering and Seismology, Izmir/Turkey	2015
Umut Ö., Hasgür Z., "Determination of the Characteristics of High Winds in Istanbul" International Journal of Sciences – Basic and Applied Research, 14(2), 197-200	2014
Rasit Comlek, Bülent Akbaş, Jay Shen, Narathip Sutchiewcharn, R. Wen, Önder Umut, "Inelastic Torsional	

- Response of Steel Concentrically Braced Frames”*
Proceedings Of The Fifteenth World Conference On Earthquake Engineering Lisbon, Portugal 2012
- Bülent Akbaş, Yasin Fahjan,, Jay SHEN, Bilge SİYAHİ, Önder UMUT, Bihter KORKMAZ. “Design considerations and seismic performance of wind turbine towers considering soil-structure interaction” 1. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı*
 ODTÜ – ANKARA 2011
- Önder UMUT, Bülent AKBAS, Jay SHEN, “Design Issues of Wind Turbine Towers”*
Proceedings of the 8th International Conference on Structural Dynamics, EURODYN, Leuven, Belgium 2011
- Umut Ö., Hasgür Z. “Yakın Fay Hareketli Depremlerin Yapılar Üzerindeki Etkisi ve Temel Ayırıcılığı – Sıvı Sönümleyicilerin Bu Yapılardaki Etkinliği”, 6. Ulusal Deprem Mühendisliği Konferansı, İstanbul, Türkiye* 2007
- Önder Umut , Zeki Hasgür “Wind Characteristics in Istanbul and Basic Wind Speed Distribution in Turkey”, Wind and Structures (Under Revision)*

LANGUAGES

English

SKILLS

Microsoft Office, SAP2000, Etabs, Matlab, Originlab-Pro, 3dBasis-ME-MB, AutoCAD, Idecad, Sta4cad, Seismosignal

VERDİĞİ EĞİTİMLER-DERSLER

- Işık University, “Reinforced Concrete, Betonarme, Advanced Reinforced Concrete, İleri Betonarme , Mechanics of Materials, Mukavemet, Dynamics, Dinamik, Introduction to Programming, Programlamaya Giriş, Steel Structures Çelik Yapılar, Special Topics: Computer Aided Structural Analysis, Özel Konular: Bilgisayar Destekli Yapı Analizi, Earthquake Engineering ” dersleri
- Sultanbeyli Belediyesi-İSTKA Projesi kapsamında belediye mühendislerine verilecek olan eğitim, “Deprem Mühendisliğinin Esasları”
- Gebze Technical University, Betonarme, Çelik Yapılar, Zemin Yapı İlişkisi ders asistanlığı
- Ataşehir Municipality, “Deprem Yönetmelikleri, Mevcut Bina Deprem Güvenliği Değerlendirilmesi Ve Riskli Yapı Tespiti”
- Maltepe Municipality, “Deprem Yönetmelikleri, Mevcut Bina Deprem Güvenliği Değerlendirilmesi Ve Riskli Yapı Tespiti”
- Şile Municipality, “Deprem Yönetmelikleri, Mevcut Bina Deprem Güvenliği Değerlendirilmesi Ve Riskli Yapı Tespiti”

REFERENCES

Prof. Dr. Zeki HASGÜR
 Istanbul Technical University - Istanbul Altınbaş University

Prof. Dr. Eren UÇKAN
 Boğaziçi University – Alanya Alaaddin Keykubat University

Prof. Dr. Bülent AKBAŞ
 Gebze Technical University