

Umut Akgüzel
PhD Candidate



Umut Akguzel is a PhD candidate and a research assistant at the University of Canterbury in Christchurch/New Zealand. He completed his MSc study in 2003, and enrolled within the PhD program at the same university. In his MSc thesis, he worked on a research project funded by NATO and led by the Faculty Members of the Middle East Technical University Ankara/Turkey. The research topic was Seismic Assessment and Rehabilitation of Existing Buildings. Within the framework of this program, he experimentally investigated the behavior of hollow-brick infilled reinforced concrete frames strengthened with Carbon Fiber Reinforced Polymers (CFRP). At the beginning of the 2006, he enrolled into the Doctoral Program, thanks to the Targeted Doctoral Scholarship received by the University of Canterbury after a competitive international selection. Currently he is continuing his PhD studies in the same university. His research area is development of alternative retrofit strategies for New Zealand earthquake-prone reinforced concrete buildings covering numerical and experimental investigations.

His research interest areas are rehabilitation of RC and masonry structures using advanced composite materials, analysis of repaired and rehabilitated R/C structures and performance-based seismic design. In addition, he is involved in quasi-static, pseudo-dynamic and dynamic shake-table testing, complimented with appropriate analytical and numerical modeling.

Date of Birth : 9 February 1978
Place of Birth : İstanbul / Turkey
Citizenship : Turkish
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Academic Career:

PhD Candidate Civil Eng. Dept., University of Canterbury **Sept 2005 - present**

PhD Candidate Civil Eng. Dept., Bogazici University **Jan 2004 - Sept 2005**

Master of Science Civil Eng. Dept., Bogazici University **Aug 2000 - Dec 2003**

- (G.P.A. 3.52/4.0)
- *MSc Thesis: "Seismic Strengthening of Hollow Clay Tile Infilled R/C Frames With CFRP Overlays"*
Supervisors: Assist. Prof. Sevket Ozden (Kocaeli University), Prof. Turan Ozturan (Bogazici University)

Bachelor of Science Civil Eng. Dept., Kocaeli University **Sept 1996 – June 2000**

- (G.P.A. 69.19/100)
- 3rd among the graduating students in class
- G.P.A. of the 1st graduating student is 79.14/100

Research Fellowships / Research Grants:

- The University of Canterbury Targeted Doctoral Scholarship
- MSc thesis is financed by METU-Civil Engineering Department Projects (NATO, Scientific Affairs Division Grant No: SfP977231 and TUBITAK, Grant No. YMAÜ-İÇTAG-I 575).

Publications:

1. Akguzel, U., "Seismic Retrofit of Brick Infilled R/C Frames with Lap Splice Problem In Columns", Master Thesis, Bogazici University, 2004.
2. Ozden, Ş., U. Akgüzel, and T. Ozturan, "Seismic Retrofit of R/C Frames with CFRP Overlays", Seismic Assessment and Rehabilitation of Existing Buildings, Kluwer Academic Publishers, pp. 357-382, 2003.
3. Ozden, S., Akguzel, U., and Ozturan, T., "Seismic Strengthening of Hollow Clay Tile Infilled R/C Frames With CFRP Overlays", Structures Lab. Meeting II, 19-20 June 2003, pp: 163-168, Konya, Turkey. (in Turkish)
4. Tezcan, S. S., Ipek, M., Aydan, O., Ozbek, M., Akgüzel, U., " Sultandagi, Afyon Depremi Inceleme Raporu", Dünya Insaat Dergisi, Sayi: 2002-3, s.80-86, Istanbul Mart, 2002.
5. Tezcan, S. S., Ipek, M., Aydan, O., Ozbek, M., Akgüzel, U., " February3, 2002 Sultandağı, Afyon Earthquake", Reconnaissance Report, Turkish Earthquake Foundation, DR 011-75, Mart, 2002.
6. Kavak, A., Akgüzel, U., and Mutman, U., "Comparison of Turkish Earthquake Code with Eurocode 8: Design Provisions for Earthquake Resistance of Structures", 1st National Kocaeli Earthquake Conference, Kocaeli, 2003. (in Turkish)

Research Experience:

Research Assistant Structures Lab, Civil Eng. Dept., Bogazici University **Sept 2001- Sept 2005**

Work Experience:

Trainee Engineer

- Cevahir Holding Libya Insaat / Istanbul (May 98-August 98) (Şişli shopping center construction – in-situ training)
- Marmara Güc Birliği Holding / Izmit (June 99-July 99) (Carrefour mall shopping center construction- office and in-situ)
- ZETAS Zemin Teknolojisi A.Ş /Istanbul (July 99-August 99) (Offshore subsoil investigation for jetty type structure / Bodrum)

Professional Activities

Some in-situ non-destructive or semi-destructive tests for retrofitting of RC structures project after 1999 Marmara Earthquakes and 2003 bomb attacks in Istanbul, such as HSBC Bank building and The British Consulate; head office buildings of AVEA (Mobile phone operator) in Istanbul; several primary schools in the Marmara region for seismic retrofitting evaluation.

Professional Affiliation:

- Chamber of Civil Engineers, Istanbul Chapter/Turkey.
- Active participant in the Winpeace (Turkish-Greek Women's Initiation for Peace) Conflict Resolution Training Camps (2000-2001).