

## Prof. ALİ OSMAN ÖNCEL

### Personal Information

**Office Phone:** [+90 286 218 0018](tel:+902862180018) Extension: 2157

**Email:** oncel@comu.edu.tr

**Web:** <https://avesis.comu.edu.tr/oncel>

### International Researcher IDs

ORCID: 0000-0003-0951-2494

Yoksis Researcher ID: 1547

### Biography

I have worked as University Professor of Engineering and a Geophysicist/Seismologist for many years, conducting teaching, administration and research internationally, including work related to risk management of energy production areas and rock physics of energy fields. I have extensive experience in management, organization, teaching, consulting and data collection and interpretation and am comfortable using a variety of software for data processing. Through my work I have gained experience in management, seismicity studies and monitoring for safety of energy and mining fields, seismotectonic analysis for city planning, conducting probabilistic hazard assessment for risk insurance.

For much of my career I have worked as head of department and professional organizations, and an instructor in earthquake seismology, field seismology and 4D seismology, including work at the prestigious [King Fahd University of Petroleum and Minerals](#), and [Alberta University](#) where all instruction is in English; and I am currently working as a Professor of Seismology in Istanbul University since 2010. I feel confident in my ability to clearly communicate the microseismic process to others, including those with little knowledge in this area. My work as an instructor of postgraduate students has helped me develop the skills to guide and support projects while maintaining high standards in organization.

I have pursued a career in University Professor of Geophysics/Seismology and Volunteer Coordinator of University Business World Meeting, Scientific Panels and Conferences, because it is an area of passion and interest to me, and as such I have focused on continual study and collaboration with other scientific and business professionals. It is through this international collaboration that I have developed strong communication skills and the ability to work towards a common goal.

### Education Information

Post Doctorate, Agency For Industrial Science And Technology, Active Fault Research Center, Seismology, Japan 2003 - Continues

Post Doctorate, Natural Resources Canada , National Earthquake Hazards Program, Seismology, Canada 2001 - 2003

Post Doctorate, Agency For Industrial Science And Technology, Exploration Geophysics, Rock Physics, Japan 1998 - 1999

Doctorate, Istanbul University, Mühendislik, Yer Fiziği, Turkey 1992 - 1996

Postgraduate, Istanbul University, Mühendislik, Yer Fiziği, Turkey 1989 - 1992

Undergraduate, Istanbul University, Mühendislik, Jeofizik, Turkey 1985 - 1989

## Foreign Languages

English, B2 Upper Intermediate

## Certificates, Courses and Trainings

Education Management and Planning, Bina ve Site Yönetimi, İstanbul - Beylikdüzü - (970565) Beylikdüzü Halk Eğitimi Merkezi, 2019

Education Management and Planning, Emlak Danışmanlığı, İstanbul - Beylikdüzü - (970565) Beylikdüzü Halk Eğitimi Merkezi, 2019

Education Management and Planning, Fotoğraf Çekimi, İstanbul - Beylikdüzü - (970565) Beylikdüzü Halk Eğitimi Merkezi, 2018

Education Management and Planning, Kentsel Dönüşüm, İstanbul - Beylikdüzü - (970565) Beylikdüzü Halk Eğitimi Merkezi, 2017

Education Management and Planning, Diksiyon, İstanbul - Beylikdüzü - (970565) Beylikdüzü Halk Eğitimi Merkezi, 2017

Foreign Language, Academic Reading, Grant McEwan University, 2010

Foreign Language, Grammar Mechanics of English, NorQuest College, 2008

Foreign Language, General English, NorQuest College, 2008

## Dissertations

Doctorate, Fraktal analiz ile Türkiye'deki doğrultu atımlı fayların yapısal ve sismolojik özelliklerinin belirlenmesi, İstanbul University, Jeofizik Mühendisliği, Sismoloji Anabilim Dalı, 1996

Postgraduate, Kuzey Anadolu fay zonunda depremlerin istatistiksel analizi, İstanbul University, Jeofizik Mühendisliği, Sismoloji, 1992

## Research Areas

Geophysical Engineering, Seismology, Earthquake Seismology, Applied Geophysics, Search Seismology, Engineering and Technology

## Academic Titles / Tasks

Professor, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Jeofizik, 2019 - Continues

Professor, İstanbul University, Mühendislik, Jeofizik, 2010 - 2019

Research Assistant PhD, University of Alberta, Physics, Geophysics, 2008 - 2010

Associate Professor, King Fahd University Of Petroleum And Minerals, Science, Earth Sciences, 2004 - 2008

Associate Professor, İstanbul University, Mühendislik, Jeofizik, 2000 - 2006

Research Assistant PhD, İstanbul University, Mühendislik, Jeofizik, 1996 - 2000

Research Assistant, İstanbul University, Mühendislik, Jeofizik, 1990 - 1996

## Academic and Administrative Experience

İstanbul University, Mühendislik, 2011 - 2014

İstanbul University, Mühendislik, Mühendislik Bilimleri, 2011 - 2014

## Courses

Global Seismology, Doctorate, 2020 - 2021  
 General Geophysics, Undergraduate, 2020 - 2021  
 Advanced Seismology, Postgraduate, 2019 - 2020  
 Statistical Seismology, Postgraduate, 2020 - 2021  
 Statistical Seismology , Undergraduate, 2015 - 2016, 2014 - 2015  
 Rock Physics and 4D Seismology, Doctorate, 2015 - 2016  
 Field Seismology , Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012  
 Special Topics in Engineering Sciences , Postgraduate, 2015 - 2016, 2013 - 2014  
 4D Seismology, Postgraduate, 2014 - 2015  
 Earthquake Engineering, Doctorate, 2014 - 2015  
 Rock Physics and 4D Seismology, Doctorate, 2014 - 2015  
 Earthquake Engineering, Postgraduate, 2013 - 2014  
 Earthquake Engineering, Postgraduate, 2012 - 2013  
 Global Seismology, Postgraduate, 2011 - 2012

### **Published journal articles indexed by SCI, SSCI, and AHCI**

- I. **Anomalous seismicity preceding the 1999 Izmit event, NW Turkey**  
 Oncel A. O., WILSON T.  
 GEOPHYSICAL JOURNAL INTERNATIONAL, vol.169, no.1, pp.259-270, 2007 (SCI-Expanded)
- II. **Evaluation of earthquake potential along the Northern Anatolian Fault Zone in the Marmara Sea using comparisons of GPS strain and seismotectonic parameters**  
 Oncel A. O., WILSON T.  
 TECTONOPHYSICS, vol.418, pp.205-218, 2006 (SCI-Expanded)
- III. **Correlation of seismotectonic variables and GPS strain measurements in western Turkey**  
 Oncel A. O., WILSON T.  
 JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH, vol.109, 2004 (SCI-Expanded)
- IV. **Precursory seismicity changes associated with the M-w=7.4 1999 August 17 Izmit (Turkey) earthquake**  
 HUANG Q., Oncel A. O., SOBOLEV G.  
 GEOPHYSICAL JOURNAL INTERNATIONAL, vol.151, no.1, pp.235-242, 2002 (SCI-Expanded)
- V. **Space-time correlations of seismotectonic parameters: Examples from Japan and from Turkey preceding the Izmit earthquake**  
 Oncel A. O., WILSON T.  
 BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, vol.92, no.1, pp.339-349, 2002 (SCI-Expanded)
- VI. **Size scaling relationships in the active fault networks of Japan and their correlation with Gutenberg-Richter b values**  
 Oncel A. O., WILSON T., NISHIZAWA O.  
 JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH, vol.106, pp.21827-21841, 2001 (SCI-Expanded)
- VII. **Probabilistic seismic hazard maps for the Japanese islands**  
 KIJIKO A., Oncel A. O.  
 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.20, pp.485-491, 2000 (SCI-Expanded)
- VIII. **The major asperities of the 1999 M-w=7.4 Izmit earthquake defined by the microseismicity of the two decades before it**  
 Oncel A. O., Wyss M.  
 GEOPHYSICAL JOURNAL INTERNATIONAL, vol.143, no.3, pp.501-506, 2000 (SCI-Expanded)
- IX. **Effect of aftershocks on earthquake hazard estimation: An example from the North Anatolian Fault Zone**  
 Oncel A. O., ALPTEKIN O.  
 NATURAL HAZARDS, vol.19, no.1, pp.1-11, 1999 (SCI-Expanded)

- X. **The Dinar earthquake (M-w = 6.2; October 1, 1995; Afyon-Turkey) and earthquake hazard of the Dinar-Civril fault**  
Oncel A. O., KORAL H., ALPTEKIN O.  
PURE AND APPLIED GEOPHYSICS, vol.152, no.1, pp.91-105, 1998 (SCI-Expanded)
- XI. **Spatial variations of the fractal properties of seismicity in the Anatolian fault zones**  
Oncel A., Main I., Alptekin O., Cowie P.  
TECTONOPHYSICS, vol.257, pp.189-202, 1996 (SCI-Expanded)
- XII. **Temporal variations in the fractal properties of seismicity in the North Anatolian Fault Zone between 31 degrees E and 41 degrees E**  
Oncel A., Main I., Alptekin O., Cowie P.  
PURE AND APPLIED GEOPHYSICS, vol.147, no.1, pp.147-159, 1996 (SCI-Expanded)
- XIII. **Temporal variations of the fractal properties of seismicity in the western part of the north Anatolian fault zone: possible artifacts due to improvements in station coverage**  
Oncel A. O., Alptekin O., Main I.  
NONLINEAR PROCESSES IN GEOPHYSICS, vol.2, pp.147-157, 1995 (SCI-Expanded)

### Refereed Congress / Symposium Publications in Proceedings

- I. **KENTSEL DÖNÜŞÜMDE YAPILAŞMA JEOFİZİĞİ VE SOSYAL RİSK BOYUTUNUN DEĞİŞİMİ**  
TEMEL S., ÖNCEL A. O., EBRU A.  
KENTSEL DÖNÜŞÜMÜN SOSYAL BOYUTU SEMPOZYUMU, İstanbul, Turkey, 12 May 2015, pp.130-139
- II. **KENTSEL DÖNÜŞÜMDE RİSKLİ ALANLARIN İZLENMESİNDE SOSYAL KATILIM 101 DEPREM EVİ PROJESİ**  
EBRU A., ÖNCEL A. O., TEMEL S.  
KENTSEL DÖNÜŞÜMÜN SPSYAL BOYUTU SEMPOZYUMU, İstanbul, Turkey, 12 May 2015, pp.120-129
- III. **YEREL YÖNETİMLERDE YEREL RİSK YÖNETİMİ**  
ÖNCEL A. O.  
YEREL YÖNETİMLERDE İŞ SAĞLIĞI VE GÜVENLİĞİ SEMPOZYUMU, İstanbul, Turkey, 09 May 2015, pp.95-98
- IV. **KENT ODAKLI DEPREM RİSK YÖNETİMİ VE İLKELERİ**  
ÖNCEL A. O.  
13 MART 1992 ERZİNCAN DEPREMİ YILDÖNÜMÜ VE DEPREM, İstanbul, Turkey, 13 March 2015

### Metrics

Publication: 19  
Citation (WoS): 400  
Citation (Scopus): 442  
H-Index (WoS): 12  
H-Index (Scopus): 12

### Non Academic Experience

Non-profit Organisation, Mimar Mühendisler Grubu  
Other Public Institution, Tmmob İstanbul Jeofizik Şubesi, Jeofizik