

## Oner Sufri

PhD Candidate, University of Utah, Salt Lake City

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## Education

**PhD in Geophysics** Aug 2010 - May 2014

University of Utah, Geology & Geophysics, Salt Lake City, UT.

*Characteristics of microseismic sources recorded by the Earthscope transportable stations*

*Advisor: Keith Koper*

**MSc in Geophysics** Aug 2006 - May 2009

Saint Louis University, Earth & Atmos. Sciences, Saint Louis, MO.

*Imaging the rupture of the Mw 8.0 Aug. 15 2007 Peru earthquake by back-projecting teleseismic P-waves*

*Advisor: Keith Koper*

**BSc in Geophysics** Sep 1999 - June 2004

Dokuz Eylul University, Department of Geophysical Engineering, Izmir, Turkey.

*Time Series analysis of earthquakes in Turkey between 1974-2003.*

*Advisor: Mehmet Utku*

## Experience

Teaching Assistant August 2013 - December 2013

Geology & Geophysics, University of Utah, Salt Lake City, UT

- *GEO 1000 Natural Disasters (Barbara Nash)*

Research Assistant August 2010 - August 2013

Geology & Geophysics, University of Utah, Salt Lake City, UT

- *NSF award number EAR-0951558*  
*Downloaded continuous data for the year of 2009, and a month of data during the passage of Hurricane Sandy in 2012 from Earthscope Transportable Array stations. Used eigenvalue decomposition techniques and ocean wave models for investigating the size, strength, duration, and location of microseismic sources in both the Pacific and Atlantic Oceans. Investigated site-effects for understanding the tectonic and geologic structure beneath the seismometers.*

Teaching Assistant August 2006 - May 2010

Earth & Atmos. Sciences, Saint Louis University, Saint Louis, MO

- *Nuclear Explosions and Introduction to Seismology (Keith Koper)*
- *Introduction to Geology (David Kirschner)*

- *Earth's Dynamic Environment (John Encarnacion)*

#### Teaching Assistant

December 2004 - June 2006

Dept. Geophys. Engineering, Dokuz Eylul University, Izmir, Turkey

- *Introduction to Fortran (Mehmet Utku)*

#### Professional Internship

June 2003-August 2003

Turkish Petroleum Corporation, Ankara, Turkey

- *Interpretation of sonic well logs data collected from wells located in the northwest of Turkey near Istanbul.*
- *Provided interpretations of hydrocarbon presence and phase from sonic well logs, 2-D seismic cross-sections, and local geological maps.*
- *Prepared short summary report for future 2-D and possible 3-D seismic surveys*

### **Professional Skills**

- Signal Processing
- Exploration Seismology
- Unix, Shell scripting (bash)
- Matlab
- Fortran
- Promax (intermediate)
- Array Seismology
- Seismic Prospecting
- Seismic Analysis Code (SAC)
- Generic Mapping Tool (GMT)
- C programming

### **Awards**

Graduated with the third best GPA in the department

June 2004

*Dokuz Eylul University, Department of Geophysical Engineering, Izmir, Turkey*

### **Publications**

- **Sufri, O.**, K. D. Koper, R. Burlacu, and B. de Foy (2013). Microseisms from Superstorm Sandy, *Earth Planet. Sci.*, <http://dx.doi.org/10.1016/j.epsl.2013.10.015>.
- **Sufri, O.**, K. D. Koper, and T. Lay (2012). Along-dip seismic radiation segmentation during the 2007 Mw 8.0 Pisco, Peru earthquake, *Geophys. Res. Lett.* 39, L08311, doi:10.1029/2012GL051316.
- Koper K. D., A. R. hutko, T. Lay, and **O. Sufri** (2012). Imaging short-period seismic radiation from the 27 February 2010 Chile (Mw 8.8) earthquake by back-projecting of P, PP, and PKIKP waves, *J. Geophys. Res.*, 117, B02308, doi:10.1029/2011JB008576.
- Lay T., C. J. Ammon, H. Kanamori, K. D. Koper, **O. Sufri** and A. R. Hutko (2010). Teleseismic inversion for rupture process of the 27 February 2010 Chile (Mw 8.8) earthquake, *Geophys. Res. Lett.*, 37, L13301, doi: 10.1029/2010GL043379

- Xu, Y., K. D. Koper, **O. Sufri**, L. Zhu, and A. R. hutko (2009). Rupture imaging of the Mw 7.9 12 May 2008 Wenchuan earthquake from backprojection of teleseismic P waves. *Geochem. Geophys Geosyst.*, 10, Q04006, doi:10.1029/2008GC002335.

## Academic Conferences and Abstracts

- **Sufri O.**, K. D. Koper (2013). Microseisms from Superstorm Sandy, 2013 Seismological Society of America Meeting, Salt Lake City.
- **Sufri, O.**, K. D. Koper (2012). Microseisms from 2009 Hurricane Ida Recorded Across the Transportable Array. 2012 IRIS Workshp Boise, ID.
- **Sufri, O.**, Koper K. D. (2011). Exploration and Visualization of Continuous Seismic Data Recorded by the Earthscope Transportable Array in 2009. American Geophysical Union 2011 Fall Meeting.
- **Sufri, O.**, Koper K., Hutko, A., Lay, T., Ammon C. J., Kanamori, H. (2010). Imaging the rupture of the 27 February 2010 Chile (Mw 8.8) earthquake via backprojection of P, PP, and PKP waves. American Geophysical Union 2010 Fall Meeting.
- **Sufri O.**, Xu, Y., Koper K. D. (2009). Imaging the Rupture of the M8.0 Pisco Earthquake of 2007 by Backprojecting Teleseismic P waves. In: *Seismological Research Letters*, Vol. 80, No. 2.
- Gundogdu, O., Z. Akcig, O. Polat, E. Arpat, M. Akgun, M. Utku, E. Gok, N. Akyol, A. T. Arslan, I. Kaftan, Y. Koca, S. Karabulut, O. Gundogdu, T. Gonenc, **O. Sufri**, S. A. Ozcelik, D. Kolcak (2006). 17-21 October 205 Sigacik (Izmir) earthquakes. Proceeding of the 16<sup>th</sup> International Geophysical Congress and Exhibition, Turkey.
- **Sufri O.**, M. Utku (2006). Time analysis of earthquakes in Turkey between 1975 and 2004. Proceeding of the 14<sup>th</sup> International Geophysical Congress and Exhibition, Ankara, Turkey.

## Professional Memberships

American Geophysical Union (since 2008)  
 Seismological Society of America (since 2009)  
 Society of Exploration Geophysicists (since 2003)  
 The Chamber of Geophysical Engineers (since 2004)