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EDUCATION

- PhD in Geophysics, California Institute of Technology, 2001-2008
- Koc University, Istanbul, BS with honor, Major in Physics, 2000

DISTINCTIONS

2006 scholarship International Workshop on the Comparative Studies of the North Anatolian Fault and the San Andreas Fault, August 2005, Istanbul Turkey

2005, recipient of the Outstanding Student Paper Award, Tectonophysics Section, American Geophysical Union Fall Meeting, December 2007, San Francisco, CA

1995-2000 Vehbi Koc Scholar, Koc University

PUBLICATIONS

A.O. Konca J-P Avouac, A. Sladen, A.J. Meltzner, K. Sieh, P. Fang, Z. Li, J. Galetzka, J. Genrich, et al., (2008), Partial rupture of a locked patch of the Sumatra megathrust during the 2007 earthquake sequence. *Nature*, accepted.

A.O. Konca, (2008), Investigating Large Earthquake Rupture Kinematics from the Joint Analysis of Seismological, Geodetic and Remote Sensing Data, PhD Thesis, Calif. Inst. Tech.

A.O. Konca, V. Hjorleifsdottir, T.A. Song, J.-P. Avouac, D.V. Helmberger, C. Ji, K. Sieh, R. Briggs, A. Meltzner, (2006), Rupture kinematics of the 2005, Mw 8.6, Nias- Simeulue earthquake from the joint inversion of seismic and geodetic data, *Bull. Seism. Soc. Am*, **97**, no:1A, S307-S322

J.-P. Avouac, F. Ayoub, S. LePrince, **A.O. Konca**, D. V. Helmberger, (2006), The 2005, Mw 7.6 Kashmir earthquake : sub-pixel correlation of ASTER images and seismic waveforms analysis. *Earth Plan. Sci. Lett.*, **249** pp 514-528

A. Sennaroglu, **A.O. Konca**, Pollock CR, (2000), Continuous-wave power performance of a 2.47- μ m Cr²⁺: ZnSe laser: Experiment and modeling, *IEEE Journal of Quantum Electronics* 36(10):1199-1205

Manuscripts in Preparation

A.O. Konca, S LePrince, J-P Avouac, DV Helmberger, Rupture process of 1999, M_w7.1 Duzce earthquake from joint analysis of SPOT, GPS, InSAR, strong-motion and teleseismic data, in preparation.

A.O. Konca, E.J. Fielding, J.P. Avouac, D.V. Helmberger, The Joint Teleseismic, InSAR and ASTER model of the M_w7.6 Kashmir Earthquake, in preparation.

A.O. Konca, Y Kaneko, N Lapusta, J.-P. Avouac, Kinematic inversion of physically plausible earthquake source models obtained from Dynamic Rupture Simulations, in prep

COMPUTER SKILLS

System: Linux, Unix, Windows

Programming languages and programs: Perl, Fortran, Matlab, csh, Mathematica, MS Office.

Graphics and editing packages: SAC, GMT, Adobe Illustrator, Adobe Photoshop.

SYNERGISTIC ACTIVITIES

2005-2008, Management the Tectonic Observatory Large Earthquake Slip History Database, for public access to large earthquake models.

SELECTED PRESENTATIONS

- A.O. Konca**, S LePrince, J-P Avouac, DV Helmberger, Rupture Process of Duzce Earthquake from joint analysis of SPOT, GPS, InSAR, strong- motion and teleseismic data: Supershear rupture speed and rapid variations, Fall AGU Meeting, San Francisco, 2007
- J. Genrich, **A.O. Konca**, A. Sladen, K. Sieh, J.P. Avouac, J. Galetzka, Analysis of High Rate GPS Data From the September 12 and 13 Strong Motion Events off Sumatra, Fall AGU Meeting, San Francisco, 2007
- A.O. Konca**, A. Sladen, J-P Avouac, A.J. Meltzner, K. Sieh, P. Fang, Z. Li, J. Galetzka, J. Genrich, et al. Rupture kinematics of Mw8.4 South Pagai Earthquake, Sumatra, from joint inversion of seismic and geodetic data Fall AGU Meeting, San Francisco, 2007
- A. Sladen, **A.O. Konca**, H Perfettini, L Audin, H Tavera, J.P. Avouac, Source Characteristics of the 2007 Pisco Earthquake (Mw=8.0), Central Peru, Derived From Seismic Waveforms Inversion and Tsunami Modeling, Fall AGU Meeting, San Francisco, 2007
- A.O. Konca**, K. Sieh, D.V. Helmberger, J.P. Avouac, The joint seismic and geodetic inversion and strong ground motion estimates of the 2005 Nias 8.6 Earthquake, all AGU Meeting, San Francisco, 2005
- A.O. Konca**, D.V. Helmberger, S LePrince, J-P Avouac, Seismic and geodetic study of the 1999 Izmit and Duzce earthquake sequence ternational Workshop on the Comparative Studies of the North Anatolian Fault and the San Andreas Fault, Istanbul Turkey, 2005
- A.O. Konca**, C. Ji, D.V. Helmberger, The Observation of Fault Finiteness and Rapid Velocity Variation in Pnl Waveforms for the Mw 6.5, San Simeon, California Earthquake, AGU Meeting, San Francisco, 2004