

José Antonio ABELL MENA

Ph.D. student in Civil Engineering at University of California, Davis, Department of Civil & Environmental Engineering

PERSONAL INFORMATION

PLACE AND DATE OF BIRTH: Santiago, Chile | July 13, 1983
AGE: 30
MARITAL STATUS: Married
NUMBER OF CHILDREN: 3
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EDUCATION

CURRENTLY	Doctor of Philosophy (Ph.D.), UNIVERSITY OF CALIFORNIA, Davis Department of Civil & Environmental Engineering Adviser: Boris JEREMIC Probable date of conclusion: September 2015
AUGUST 2009	Master of Science in CIVIL ENGINEERING, PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE, Escuela de Ingeniería Thesis: "InSAR compatible ground motions for Northern Chile" Adviser: Juan Carlos DE LA LLERA MARTIN
DECEMBER 2007	Civil Engineer with diploma in STRUCTURAL ENGINEERING, PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE, Escuela de Ingeniería

RESEARCH AREAS

- Parallel computer simulations and modelling of stochastic, no-linear, dynamic finite element problems in earthquake soil structure interaction. (UCD Earthquake-Soil-Structure Interaction Simulator, ESSI).
- Applications of geophysical methods to the characterization of seismic hazard, using geodetic measurements (InSAR, GPS, LIDAR) and surface ground motion records.
- Large scale finite element modelling with heterogeneous computer clusters.

SKILLS

Programming languages	C/C++, MATLAB/Gnu Octave, Python, TCL, Flex, Bison
Finite element analysis	UCD ESSI, Gmsh, GID, FLAC, GeoStudio, SAP2000, ETABS, FreeFEM++, OpenSEES
Computer aided design	Autodesk Autocad, 3D Studio, Blender
Text processing	\LaTeX , LibreOffice, MS. Office
Operating systems	GNU/Linux, MS Windows
Image processing	Adobe Photoshop, Illustrator, GIMP, Inkscape
SAR/InSAR/D-InSAR processing	GAMMA Software, ROI-Pac

SKILLS (CONTD.)

Languages Native spanish, Fluent english speaker
 (scored in 112 TOEFL iBT)
 Basic japanese.

AWARDS

- 2010 Becas Chile 2010 – Scholarship for doctoral studies
 CONICYT, GOBIERNO DE CHILE, Programa de formación de capital humano
 avanzado – Concurso de beca para doctorado en el extranjero.
- 2008 Graduated from M.S. program with “Maximum distinction”.
 PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE, Escuela de Ingeniería
- 2008 Earned civil engineering degree with “Maximum distinction”.
 PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE, Escuela de Ingeniería

WORK EXPERIENCE

Jul. 2008 - Present	<i>Assistant instructor</i> Universidad de los Andes. Santiago, Chile.
Mar. 2008 - Jul. 2008	<i>Part-time instructor</i> Universidad de los Andes. Class “Statics”.
Dic. 2006 - Jan. 2007	<i>Internship</i> Soluciones Integrales de Reducción de Vibraciones SIRVE S.A. ().
Private consulting	(Jul. 2013 - Nov 2013) Seismic stability asesment for CFRD dam “Camiña” for MN Ingenieros. (Nov. 2010 - Feb. 2011) Seismic stability asesment for CFRD dam “Livilcar” for MN Ingenieros. (Aug. 2009 - May. 2010) .Seismic stability asesment for CFRD dam “Valle Hermoso” for MN Ingenieros

ISI ARTICLES

- Abell J.A., de la Llera J.C., Wicks C., *Enhancement of long period components of recorded and synthetic ground motions using InSAR*, Soil Dynamics and Earthquake Engineering, 01/2011; 31(5):817-829. DOI:10.1016/j.soildyn.2011.01.005

CONFERENCE PROCEEDINGS

- N. Tafazzoli, F. Pisanò, J. A. Abell M., B. Kamrani, C.-G. Jeong, B. Aldridge, R. Roche, A. Kammerer, and B. Jeremic - *ESSI Simulator Program, Current Status*. Proceedings of the 22nd. Structural Mechanics in Reactor Technology (SMiRT 22) Conference, San Francisco, California, U.S.A.

ACADEMIC EXPERIENCE

I have lectured the following classes at [UNIVERSIDAD DE LOS ANDES](#).

- Statics (3 times)
- Mechanics of materials (2 times)
- Structural analysis (2 times)
- Dinamics of structures (1 time)

OTHER INTERESTS

Family and parenting
Music theory, classic and electric guitar
Hiking, trekking, running, swimming