KRISTEL CAROLINA MEZA FAJARDO

PERSONAL DETAILS

• *Date of Birth*: 05/May/1978

• Country of Nationality: Honduras

• Current Address: Col. Bella Oriente, Bloque "C", Casa #11

Tegucigalpa, Honduras

• *Phone number:* (504) 7250 7993

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EDUCATION

• 2007 PhD in Earthquake Engineering

University of Pavia, Pavia, Italy.

• 2004 Master of Science in Civil Engineering.

Area of study: *Structural and Earthquake Engineering*. University at Buffalo, State University of New York, USA.

• 2000 Bachelor of Science in Civil Engineering

Universidad Nacional Autónoma de Honduras (UNAH), Honduras.

LANGUAGES

• Spanish: Native language

• English: Fluent in reading, writing and conversation.

TOEFL score: 623 (Taken on 02/Aug/2002)

ACADEMIC EXPERIENCE

• 2008-present **Lecturer** (Profesora Titular). Department of Civil Engineering.

Universidad Nacional Autónoma de Honduras, Tegucigalpa, Honduras.

Courses: Structural Analysis, Concrete Structures

• 2006-2007 **Research Assistant**. Department of Civil Engineering.

University of Patras, Patras, Greece.

• 2005 **Teaching Assistant.** European School for Reduction of the Seismic Risk.

University of Pavia, Pavia, Italy.

Course: Basics of Seismology and Seismic Hazard Assessment.

• 1998-2002 **Instructor.** Department of Mathematics

Universidad Nacional Autónoma de Honduras

Courses taught: Geometry, Linear Algebra, and Calculus

RESEARCH EXPERIENCE

• *PhD Thesis*: "Numerical Simulation of Wave Propagation in Unbounded Elastic Domains using the Spectral Element Method".

- Individual Study: "A Non-Convolutional Perfectly Matched Layer for Isotropic Elastic Media"
- *Individual Study*: "Closed form solution of the Kramers-Kronig dispersion relations in linear dissipative continua"
- Master Thesis: "Torsional response of structures to the near fault ground motions".

OTHER EXPERIENCE

- Nov-2004 Member of the technical team for the structural and safety assessment of Government Buildings after the Lago Garda earthquake, Italy.
- 2001-2002 Design Assistant. Constructiva, S. de R. L. San Pedro Sula, Honduras.

PUBLICATIONS

• Meza-Fajardo, K. C., Papageorgiou, A. S.

"On the Stability of a Non-convolutional Perfectly Matched Layer for Isotropic Elastic Media". *Soil Dynamics and Earthquake Engineering*. Vol. 30, pp. 68-81. (2010)

• Meza-Fajardo, K. C., Papageorgiou A. S.

"A Non-Convolutional, Split-Field Perfectly Matched Layer (PML) for Wave Propagation in Isotropic and Anisotropic Elastic Media - Stability Analysis". *Bulletin of the Seismological Society of America*. Vol. 98, No. 4, pp. 1811-1836. (2008)

• Meza-Fajardo, K. C., Lai, C. G.

"Explicit Causal Relations between Material Damping Ratio and Phase Velocity from Exact Solutions of the Dispersion Equations of Linear Viscoelasticity" *Geophysical Journal International*, 171 (3), pp. 1247–1257. (2007)

HONORS AND AWARDS

- 2002-2004 Scholarship. *FULBRIGHT Program, USA*Ranked 1 out of 36 in the candidate selection.
- 2002-2004 Tuition Scholarship. *University at Buffalo, Buffalo, USA*
- 1999 Diploma in Recognition to Academic Excellence. UNAH

AFFILIATIONS

- Since 2004 Member of the Seismological Society of America
- Since 2000 Member of the Association of Civil Engineers of Honduras