MARIJA MUSTAĆ

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EDUCATION

2012–present **PhD in Seismology**
Research School of Earth Sciences
The Australian National University
Supervisor: Assoc Prof Hrvoje Tkalčić
Thesis topic: Seismic moment tensor inversion using Bayesian inference

2009–2012 **Mag. Phys.-Geophys.**
Department of Geophysics, Faculty of Science
University of Zagreb, Croatia
Supervisor: Doc.dr.sc. Snježana Markušić
Thesis topic: Crustal velocity models determined from teleseismic receiver functions

2006–2009 **Univ. Bacc. Geophys.**
Department of Geophysics, Faculty of Science
University of Zagreb, Croatia

PUBLICATIONS AND CONFERENCE ABSTRACTS

- Mustać, M., & Tkalčić, H. (2016). Point source moment tensor inversion through a Bayesian hierarchical model. *Geophysical Journal International*, **204**(1), 311-323.
- Mustać, M., & Tkalčić, H. (2015, December). Contending non-double-couple source components with hierarchical Bayesian moment tensor inversion. Poster. American Geophysical Union (AGU) 2015 Fall Meeting, San Francisco, USA.
- Mustać, M., & Tkalčić, H. (2014, December). Hierarchical Bayesian Inversion for the Centroid Moment Tensor. Poster. American Geophysical Union (AGU) 2014 Fall Meeting, San Francisco, USA.
- Mustać, M., & Tkalčić, H. (2014, May). Kinematic Point Source Moment Tensor Inversion Using a Hierarchical Bayesian Approach. Poster. European Geosciences Union (EGU) General Assembly 2014, Vienna, Austria.

ACADEMIC HONOURS AND AWARDS

- 2015 Outstanding Student Paper Award (OSPA) Winner at AGU 2015 Fall Meeting
- 2014 Outstanding Student Poster (OSP) Award Winner at EGU 2014 General Assembly
- 2013-2016 AE Ringwood Supplementary Scholarship
- 2013-2016 University Research Scholarship
- 2009 Dean's Award - Best student in generation, Faculty of Science, University of Zagreb

TEACHING EXPERIENCE

- Physics of the Earth. Demonstrator in laboratory classes in 2013.

- Principles of Tutoring and Demonstrating. Completed an introductory program in 2013.

MEMBERSHIPS

2013-present	American Geophysical Union
2009-2012	Student Section of Croatian Physical Society

RESEARCH INTERESTS

Full waveform seismic moment tensor inversion; representation of non-double-couple sources, explosions, volcanic earthquakes
Hierarchical Bayesian inversion; uncertainty analysis

TECHNICAL SKILLS

Computer Languages	Fortran, Matlab, Python
Tools	ObsPy, Seismic Analysis Code (SAC), LaTeX, MS Office
Operating Systems	Mac OS X, Linux, Windows

OTHER SKILLS AND INTERESTS

Croatian (native language), English (fluent) and Italian (advanced)
Hobbies: hiking, swimming, cycling