

## Prof. Dr. Céline M. Hadziioannou

CONTACT INFORMATION	Institute of Geophysics University of Hamburg Bundesstrasse 55 20146 Hamburg Germany	
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CITIZENSHIP	French and Greek	
DATE OF BIRTH	April 29, 1983	
RESEARCH INTERESTS	Ambient seismic noise and its sources; Ocean–Solid-Earth interaction, Seismic interferometry; Scattered wavefields; Coda waves; Monitoring time-dependent material changes; Noise correlation tomography	
ACADEMIC APPOINTMENTS	<b>University of Hamburg</b>	Hamburg, Germany
	<i>Junior Professor for Seismology</i>	2017 – present
	<b>Ludwig-Maximilians University Munich (LMU)</b>	Munich, Germany
	<i>Leader of the Emmy Noether Research Group</i> “The origin of Love waves in the ocean generated noise wave field”	2013 – 2017
	<b>Ludwig-Maximilians University Munich (LMU)</b>	Munich, Germany
	<i>Postdoctoral Researcher</i> Marie Curie <b>QUEST</b> ITN Postdoctoral fellow Research: “Rotational motions, ambient noise and diffuse wavefields”	2011 – 2013
EDUCATION	<b>Institut des Sciences de la Terre (ISTerre)</b>	Grenoble, France
	<i>PhD, Seismology</i> Research: “Seismic waves in complex media: measuring temporal velocity variations” Advisors: Prof. Dr. Michel Campillo and Dr. Eric Larose	2007 – 2011
	<b>Universiteit van Utrecht (UU)</b>	Utrecht, the Netherlands
	<i>Master of Science, Geophysics</i>	2005 – 2007
	<b>Rijksuniversiteit Groningen (RuG)</b>	Groningen, the Netherlands
	<i>Bachelor of Science, Astrophysics</i>	2001 – 2005
HONOURS & AWARDS	<b>Emmy Noether</b> research fellowship (DFG)	2013
	Member of the <b>Center for Advanced Studies (CAS LMU)</b>	2014 – present
	Member of <b>AcademiaNet (Robert Bosch Stiftung)</b>	2014 – present
PROFESSIONAL SERVICE	Member of the <b>DEPAS pool</b> steering committee (German instrument pool for amphibian seismology)	2018 – present
	Member of LMU <b>University Research Board</b>	2014 – present
	<b>Representative of LMU and Universität Hamburg</b> as associate partner in Marie Curie ITN “ <b>WAVES</b> ” (coordinated by Dr. Lapo Bosci, UPMC Paris)	2015 – 2018
	<b>Work package co-chair</b> in Marie Curie COST action “ <b>TIDES</b> ” (coordinated by Dr. Andrea Morelli, INGV Bologna)	2014 – 2017
	<b>Collaborator</b> in the ERC project “ <b>ROMY</b> ” (PI: Prof. Dr. Heiner Igel, LMU)	2014 – 2019
	<b>Programme Committee</b> <b>COST-TIDES</b> 4th Training school in Prague, Czech Republic	2018
	<b>Organization Committee</b> <b>AMÜSE</b> PhD Conference in Hinterriss, Austria	2016
	<b>Organization Committee</b> 4th <b>IWGoRS</b> Meeting on Rotational Seismology in Tutzing, Germany	2016

REFEREED  
JOURNAL  
PUBLICATIONS

- Organized** workshop “The Earth’s Hum” in Munich 2014
- Organization Committee** for 4th QUEST workshop 2013
- Organization Committee** Workshop “Noise and Diffuse Wavefields” 2012  
in Neustadt an der Weinstrasse, Germany
- Chair** of regular sessions at EGU, AGU, DGG 2012 – 2018
- Reviewer** for the Helmholtz Association, ETH Research commission, LMU Research Board, Scientific journals (GRL, GJI, JGR, J. Appl. Geophysics, J. of Seism.)
- Students under my supervision are indicated with a star<sup>\*</sup>
- L. Krischer, S. Donner, M. van Driel, **C. Hadziioannou**, M. Koymans, J. Leeman, F. Lindner, T. Megies, C. Nunn, A. Rijal, J. Salvermoser<sup>\*</sup>, T. Taufiqurrahman, S. Wollherr, D. Vargas, J. Wassermann, F. Wölfl, C. Tape and H. Igel  
Seismo-Live: An Educational Online Library of Jupyter Notebooks For Seismology, *Seismol. Res. Lett.*, 2018
- S. Hable, K. Sigloch, G. Barruol, S. C. Stähler, **C. Hadziioannou**  
Clock errors in land and ocean bottom seismograms: High-accuracy estimation using multiple component noise cross-correlations, *Geophys. J. Int.*, 214(3) 2018
- F. Lindner, C. Weemstra, F. Walter, **C. Hadziioannou**  
Towards Monitoring the englacial fracture state using virtual-reflector seismology, *Geophys. J. Int.*, 214(2) 2018
- C. Juretzek<sup>\*</sup>, **C. Hadziioannou**,  
Linking source region and ocean wave parameters with the observed primary microseismic noise, *Geophys. J. Int.*, 211(3), p1640-1654, 2017
- S. Donner, C.-J. Lin, **C. Hadziioannou**, A. Gebauer, F. Vernon, D. C. Agnew, H. Igel, U. Schreiber, J. Wassermann,  
Comparing direct observation of strain, rotation, and translation with array estimates at Pinon Flat Observatory, California, *Seismol. Res. Letters* 88 (4) 2017
- J. Salvermoser<sup>\*</sup>, **C. Hadziioannou**, S. Hable<sup>\*</sup>, L. Krischer, B. Chow, C. Ramos, J. Wassermann, U. Schreiber, A. Gebauer, H. Igel,  
An event database for rotational seismology, *Seismol. Res. Letters* 88 (3), 2017
- T. Tanimoto, C.-J. Lin, **C. Hadziioannou**, H. Igel, F. Vernon,  
Estimate of Rayleigh-to-Love wave ratio in the secondary microseism by a small array at Piñon Flat Observatory, California, *Geophys. Res. Lett.*, 43, 2016
- C. Juretzek<sup>\*</sup>, **C. Hadziioannou**,  
Where do ocean microseisms come from? A study of Love-to-Rayleigh wave ratios, *J. Geophys. Res. Solid Earth*, 121, 2016
- A. Obermann, T. Planès, **C. Hadziioannou**, M. Campillo,  
Lapse-time dependent coda wave depth sensitivity to local velocity perturbations in 3-D heterogeneous elastic media, *Geophys. J. Int.*, 207 (1), 59-66 2016
- C. Wu, A. Delorey, F. Brenguier, **C. Hadziioannou**, E. Daub, P. Johnson,  
Constraining depth range of S-wave velocity decrease after large earthquakes near Parkfield, California, *Geophys. Res. Lett.*, 43 2016
- J. Wassermann, A. Wietek<sup>\*</sup>, **C. Hadziioannou**, H. Igel,  
Towards a Single Station Approach for Microzonation: Using Vertical Rotation Rate to Estimate Love-Wave Dispersion Curves and Direction Finding, *BSSA*, 106 (3) 2016
- T. Tanimoto, **C. Hadziioannou**, H. Igel, J. Wassermann, U. Schreiber, A. Gebauer, B. Chow,  
Seasonal variations in the Rayleigh-to-Love wave ratio in the secondary microseism from co-located ring laser and seismograph, *J. Geophys. Res. Solid Earth*, 121, 2016
- J. Salvermoser<sup>\*</sup>, **C. Hadziioannou**, S. Stähler,  
Structural monitoring of a highway bridge using passive noise recordings from street traffic, *J. of the Acoust. Soc. Am.*, 138, 3864 2015
- T. Tanimoto, **C. Hadziioannou**, H. Igel, J. Wasserman, U. Schreiber, A. Gebauer,  
Estimate of Rayleigh-to-Love wave ratio in the secondary microseism by co-located ring laser and seismograph, *Geophys. Res. Lett.*, 42 2015
- C. Hadziioannou**, P. Gaebler, U. Schreiber, J. Wassermann, H. Igel,  
Examining ambient noise using co-located measurements of rotational and translational motion, *Journal of Seismology*, 16(4), 787–796, 2012

	<p><b>C. Hadziioannou</b>, E. Larose, A. Baig, P. Roux, M. Campillo, Improving Temporal Resolution in Ambient Noise Monitoring of Seismic Speed, <i>J. Geophys. Res.</i> 116: B0730, <b>2011</b></p> <p>R. Weaver, <b>C. Hadziioannou</b>, E. Larose, M. Campillo, On the precision of noise correlation interferometry, <i>Geophys. J. Int.</i> 185, 1384–92, <b>2011</b></p> <p><b>C. Hadziioannou</b>, E. Larose, O. Coutant, P. Roux, M. Campillo, Stability of monitoring weak changes in multiply scattering media with ambient noise correlation: Laboratory experiments, <i>J. of the Acoust. Soc. Am.</i> 125, 3688–95, <b>2009</b></p> <p>F. Brenguier, M. Campillo, <b>C. Hadziioannou</b>, N. Shapiro, R. Nadeau, E. Larose, Postseismic relaxation along the San Andreas fault at Parkfield from continuous seismo- logical observations, <i>Science</i> 321, 1478–81, <b>2008</b></p>	
SUBMITTED	<p>B. Chow<sup>*</sup>, J. Wassermann, B. Schuberth, <b>C. Hadziioannou</b>, S. Donner and H. Igel Love wave amplitude decay from rotational ground motions <i>submitted to Geophys. J. Int.</i></p> <p>L. Gualtieri, E. Stutzmann, C. Juretzek<sup>*</sup>, <b>C. Hadziioannou</b> and F. Arduin Global scale analysis and modeling of primary microseisms <i>submitted to Geophys. Res. Lett.</i></p> <p>D. Ziane<sup>*</sup> and <b>C. Hadziioannou</b> Multiple scattering as a possible mechanism for generating Love waves in the secondary microseism, <i>submitted to Geophys. J. Int.</i></p>	
EDITED BOOKS & BOOK CHAPTERS	<p>S. Donner, H. Igel, <b>C. Hadziioannou</b> and the ROMY Group Retrieval of the seismic moment tensor from joint measurements of translational and rotational ground motions, <i>To appear in: "Moment Tensor Solutions - A Useful Tool for Seismotectonics" (Springer; Editor: Sebastiano D'Amico),</i> <b>2017</b></p> <p>A. Schmidt, C. Sens-Schönfelder, <b>C. Hadziioannou</b>, U. Wegler, E. Niederleithinger (Ed- itors), Noise and Diffuse Wave Fields, Extended Abstracts of the Neustadt Workshop, <i>Mitteilungen Deutsche Geophysikalische Gesellschaft e.V., Sonderband IV/2012;</i> <b>2012</b></p>	
OUTREACH	<p>A. Morelli, <b>C. Hadziioannou</b>, C. Bean. Time Dependent Seismology. <i>Impact</i> 2017, no. 1 p74-76, <b>2017</b></p>	
FUNDING	Emmy Noether Fellowship (DFG)	2013 – 2018
TEACHING	<p><b>Supervision</b> of 4 PhD students, 13 MSc projects.</p> <p><b>Seminar Seismologie</b>, 2017-present MSc course at Universität Hamburg</p> <p><b>Surface &amp; Body wave Seismology</b>, 2017-present MSc course at Universität Hamburg, lectures and exercises</p> <p><b>Seismologie</b>, 2017-present BSc course (6. Sem) at Universität Hamburg, lectures and exercises</p> <p><b>Seismic noise spectra and polarisation</b>, 2015 TIDES training school on seismic data, Bertinoro, Italy</p> <p><b>Geophysikalische Datenanalyse</b>, 2015 BSc course at LMU München</p> <p><b>Geophysical Data Acquisition and Analysis</b>, 2013 – 2016 MSc course at LMU München</p> <p><b>Tutorial on Ambient noise correlations</b>, 2013 QUEST Workshop</p> <p><b>Introduction to Seismology; Signal Processing</b>, 2012 Special course at ROSE school, Pavia, Italy</p> <p><b>Applied Geophysics</b>, 2011 &amp; 2012 Exercises for BSc course at LMU München (in German)</p>	

INVITED PRESENTATIONS	Christian-Albrechts-Universität Kiel, Germany	2018
	Ruhr-Universität Bochum, Germany	
	Cargese Summer School "Ambient Noise Imaging and Monitoring 2017"	2017
	Trainer at TIDES 2nd training school, Sesimbra, Portugal	2016
	WAVES workshop "Advances in Imaging", Delft, the Netherlands	
	Trainer at TIDES 1st training school, Bertinoro, Italy	2015
	Swiss Seismological Service, ETH, Zurich, Switzerland	
	Westfälische Wilhelms-Universität Münster, Germany	
	Utrecht University, Utrecht, the Netherlands	2014
	Géoazur, Sophia-Antipolis, France	2013
	ETH Zurich, Switzerland	
	Universität Leipzig, Germany	2011
	Quest workshop, Sardinia	2010
TOOLS	<b>Rotational Seismology Event Database</b>	launched 2017
	Online access to more than 17,000 Earthquake waveforms and processed plots from signals recorded simultaneously by the Wettzell ring laser and a nearby seismometer.	
LANGUAGES	<i>Written &amp; spoken fluently:</i>	English, Dutch, French
	<i>Conversational:</i>	German
	<i>Basic knowledge:</i>	Greek