

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	University of Hamburg	Hamburg, Germany
	<i>Junior Professor for Seismology</i>	2017 – present
	Ludwig-Maximilians University Munich (LMU)	Munich, Germany
	<i>Leader of the Emmy Noether Research Group</i>	2013 – 2017
	“The origin of Love waves in the ocean generated noise wave field”	
	Ludwig-Maximilians University Munich (LMU)	Munich, Germany
EDUCATION	<i>Postdoctoral Researcher</i>	2011 – 2013
	Marie Curie QUEST ITN Postdoctoral fellow	
	Research: “Rotational motions, ambient noise and diffuse wavefields”	
	Institut des Sciences de la Terre (ISTerre)	Grenoble, France
	<i>PhD, Seismology</i>	2007 – 2011
	Research: “Seismic waves in complex media: measuring temporal velocity variations”	
	Advisors: Prof. Dr. Michel Campillo and Dr. Eric Larose	
	Universiteit van Utrecht (UU)	Utrecht, the Netherlands
	<i>Master of Science, Geophysics</i>	2005 – 2007
	Rijksuniversiteit Groningen (RuG)	Groningen, the Netherlands
HONOURS & AWARDS	<i>Bachelor of Science, Astrophysics</i>	2001 – 2005
	Emmy Noether research fellowship (DFG)	2013
	Member of the Center for Advanced Studies (CAS LMU)	2014 – present
	Member of AcademiaNet (Robert Bosch Stiftung)	2014 – present
PROFESSIONAL SERVICE	Member of LMU University Research Board	2014 – present
	Representative of LMU and Universität Hamburg as associate partner	2015 – 2018
	in Marie Curie ITN “ WAVES ” (coordinated by Dr. Lapo Bosci, UPMC Paris)	
	Work package co-chair in Marie Curie COST action “ TIDES ”	2014 – 2017
	(coordinated by Dr. Andrea Morelli, INGV Bologna)	
	Collaborator in the ERC project “ ROMY ”	2014 – 2019
	(Project leader Prof. Dr. Heiner Igel, LMU)	
	Organization Committee AMÜSE PhD Conference in Hinterriss, Austria	2016
	Organization Committee 4th IWGoRS Meeting on Rotational Seismology	
	in Tutzing, Germany	
		2016
	Organized workshop “ The Earth’s Hum ” in Munich	2014
	Organization Committee for 4th QUEST workshop	2013
	Co-organized workshop “ Noise and Diffuse Wavefields ”	2012
	in Neustadt an der Weinstrasse, Germany	
	Chair of regular sessions at EGU, AGU, DGG	2012 – 2017
	Reviewer for the Helmholtz Association, ETH Research commission, LMU Research Board, Scientific journals (GRL, GJI, JGR, J. Appl. Geophysics, J. of Seism.)	

REFEREED
JOURNAL
PUBLICATIONS

- 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, **C. Hadziioannou**, S. Hable, 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, **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, **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, **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**
- C. Hadziioannou**, E. Larose, A. Baig, P. Roux, M. Campillo,
Improving Temporal Resolution in Ambient Noise Monitoring of Seismic Speed, *J. Geophys. Res.* 116: B0730, **2011**
- R. Weaver, **C. Hadziioannou**, E. Larose, M. Campillo,
On the precision of noise correlation interferometry, *Geophys. J. Int.* 185, 1384–92, **2011**
- C. Hadziioannou**, E. Larose, O. Coutant, P. Roux, M. Campillo,
Stability of monitoring weak changes in multiply scattering media with ambient noise correlation: Laboratory experiments, *J. of the Acoust. Soc. Am.* 125, 3688–95, **2009**
- F. Brenguier, M. Campillo, **C. Hadziioannou**, N. Shapiro, R. Nadeau, E. Larose,
Postseismic relaxation along the San Andreas fault at Parkfield from continuous seismological observations, *Science* 321, 1478–81, **2008**

SUBMITTED

- C. Juretzek, **C. Hadziioannou**,
Linking source region and ocean wave parameters with the observed primary microseismic noise, *in revision at Geophys. J. Int.*

EDITED BOOKS &
BOOK CHAPTERS

- S. Donner, H. Igel, **C. Hadziioannou** and the ROMY Group
Retrieval of the seismic moment tensor from joint measurements of translational and rotational ground motions, *To appear in: "Moment Tensor Solutions - A Useful Tool for Seismotectonics" (Springer; Editor: Sebastiano D'Amico)*, **2017**
- A. Schmidt, C. Sens-Schönfelder, **C. Hadziioannou**, U. Wegler, E. Niederleitingner (Editors), Noise and Diffuse Wave Fields, Extended Abstracts of the Neustadt Workshop, *Mitteilungen Deutsche Geophysikalische Gesellschaft e.V., Sonderband IV/2012*; **2012**

FUNDING	Emmy Noether Fellowship (DFG)	2013 – 2018
TEACHING	Supervision of 4 PhD students, 11 MSc projects.	
	Seminar Seismologie , MSc course at Universität Hamburg	2017
	Seismologie , BSc course (6. Sem) at Universität Hamburg, lectures and exercises	2017
	Seismic noise spectra and polarisation , TIDES training school on seismic data, Bertinoro, Italy	2015
	Geophysikalische Datenanalyse , BSc course at LMU München	2015
	Geophysical Data Acquisition and Analysis , MSc course at LMU München	2013 – 2016
	Tutorial on Ambient noise correlations , QUEST Workshop	2013
	Introduction to Seismology; Signal Processing , Special course at ROSE school, Pavia, Italy	2012
	Applied Geophysics , Exercises for BSc course at LMU München (in German)	2011 & 2012
INVITED PRESENTATIONS	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	Rotational Seismology Event Database 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.	launched 2017
LANGUAGES	<i>Written & spoken fluently:</i> English, Dutch, French <i>Conversational:</i> German <i>Basic knowledge:</i> Greek	