

Prof. Dr. Céline M. Hadziioannou

CONTACT INFORMATION	Institute of Geophysics University of Hamburg Bundesstrasse 55 20146 Hamburg Germany	Phone: +49 (0)40 42838 2980 ORCID.ORG/0000-0002-5312-2226 celine.hadziioannou@uni-hamburg.de http://celine.hadzii.com
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 <i>Junior Professor for Seismology</i>	Hamburg, Germany 2017 – present
	Ludwig-Maximilians University Munich (LMU) <i>Leader of the Emmy Noether Research Group</i> “The origin of Love waves in the ocean generated noise wave field”	Munich, Germany 2013 – 2017
	Ludwig-Maximilians University Munich (LMU) <i>Postdoctoral Researcher</i> Marie Curie QUEST ITN Postdoctoral fellow Research: “Rotational motions, ambient noise and diffuse wavefields”	Munich, Germany 2011 – 2013
EDUCATION	Institut des Sciences de la Terre (ISTerre) <i>PhD, Seismology</i> Research: “Seismic waves in complex media: measuring temporal velocity variations” Advisors: Prof. Dr. Michel Campillo and Dr. Eric Larose	Grenoble, France 2007 – 2011
	Universiteit van Utrecht (UU) <i>Master of Science, Geophysics</i>	Utrecht, the Netherlands 2005 – 2007
	Rijksuniversiteit Groningen (RuG) <i>Bachelor of Science, Astrophysics</i>	Groningen, the Netherlands 2001 – 2005
HONOURS & AWARDS	Emmy Noether research fellowship (DFG) Member of the LMU Center for Advanced Studies (CAS LMU) Member of AcademiaNet (Robert Bosch Stiftung)	2013 2014 – present 2014 – present
PROFESSIONAL SERVICE	Member of the DEPAS pool steering committee (German instrument pool for amphibian seismology) Member of the German Geophysical Society (DGG) Equal opportunity committee Member of LMU University Research Board Representative of LMU and the University of Hamburg as associate partner in Marie Curie ITN “ WAVES ” (coordinated by Dr. Lapo Bosci, UPMC Paris) Work package co-chair in Marie Curie COST action “ TIDES ” (coordinated by Dr. Andrea Morelli, INGV Bologna) Collaborator in the ERC project “ ROMY ” (PI: Prof. Dr. Heiner Igel, LMU) Programme Committee COST-TIDES 4th Training school in Prague, Czech Republic Organization Committee AMÜSE PhD Conference in Hinterriss, Austria	2018 – present 2018 – present 2014 – present 2015 – 2018 2014 – 2017 2014 – 2019 2018 2016

REFEREED
JOURNAL
PUBLICATIONS

- 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
- Organization Committee** Workshop "**Noise and Diffuse Wavefields**" in Neustadt an der Weinstrasse, Germany 2012
- Session Convener & Chair** of the yearly Ambient Seismic Noise session at **EGU** General Assembly, Vienna, Austria 2012–2019
- Session Convener & Chair** of "Seismic Noise" session at the 76th yearly meeting of the German Geophysical Society (DGG) 2016
- Session Convener & Chair**, **AGU** Fall Meeting, San Fransisco, USA 2015
- Peer Reviewer** for Research grants (Helmholtz Association, ETH Research commission, LMU Research Board) and for Scientific journals (GRL, GJI, JGR, J. Appl. Geophysics, J. of Seism.)
- Citations \approx 930; h-index 10; Source: **Google Scholar**
- Students under my supervision are indicated with a star^{*}
- 21. L. Gualtieri, E. Stutzmann, C. Juretzek^{*}, C. Hadziioannou and F. Ardhuin**
Global scale analysis and modeling of primary microseisms,
in press, Geophys. Res. Lett. 2019
- 20. D. Ziane^{*} and C. Hadziioannou**
Multiple scattering as a possible mechanism for generating Love waves in the secondary microseism, *Geophys. J. Int.* 217 (2) 2019
- 19. L. Krischer, S. Donner, M. van Driel, C. Hadziioannou, M. Koymans, J. Leeman, F. Lindner, T. Megies, C. Nunn, A. Rijal, J. Salvermoser^{*}, 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.*, 89 (6) 2018
- 18. 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
- 17. F. Lindner, C. Weemstra, F. Walter, C. Hadziioannou**
Towards Monitoring the englacial fracture state using virtual-reflector seismology, *Geophys. J. Int.*, 214(2) 2018
- 16. C. Juretzek^{*}, C. Hadziioannou,**
Linking source region and ocean wave parameters with the observed primary microseismic noise, *Geophys. J. Int.*, 211(3), p1640-1654, 2017
- 15. 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
- 14. 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
- 13. 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
- 12. 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
- 11. 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
- 10. 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

9. J. Wassermann, A. Wietek^{*}, **C. Hadziioannou**, H. Igel,
Toward a Single Station Approach for Microzonation: Using Vertical Rotation Rate to
Estimate Love-Wave Dispersion Curves and Direction Finding, *BSSA*, 106 (3) **2016**
8. 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**
7. 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**
6. 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**
5. **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**
4. **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**
3. R. Weaver, **C. Hadziioannou**, E. Larose, M. Campillo,
On the precision of noise correlation interferometry, *Geophys. J. Int.* 185, 1384–92, **2011**
2. **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**
1. F. Brenguier, M. Campillo, **C. Hadziioannou**, N. Shapiro, R. Nadeau, E. Larose,
Postseismic relaxation along the San Andreas fault at Parkfield from continuous seismo-
logical observations, *Science* 321, 1478–81, **2008**

SUBMITTED

- B. Chow^{*}, J. Wassermann, B. Schuberth, **C. Hadziioannou**, S. Donner and H. Igel
Love wave amplitude decay from rotational ground motions
in revision at *Geophys. J. Int.*
- M. van Driel, S. Ceylan, J. F. Clinton, D. Giardini, R. Weber, P. Lognonné, B. Banerdt,
M. Drilleau, N. Murdoch, M. Panning, R. Garcia, D. Mimoun, M. Golombek, J. Tromp,
M. Böse, I. Daubar, B. Kenda, A. Khan, L. Perrin, A. Spiga, M. S. Boxberg, M. Parath,
M. Ditz, A. Lamert, T. Möller, S. Zhang, D. Ambrois, J. Chèze, F. Peix, H. Alemany, D.
Mercerat, J. Balestra, A. Deschamp, C. Twardzik, L. Rolland, S. Mader^{*}, L. Marten^{*}
, C. Schröer^{*}, D. Becker, T. Casademont^{*}, F. Dethof^{*}, D. Essing^{*}, K. Grunert^{*}
, **C. Hadziioannou**, I. Hochfeld^{*}, T. Kilchling^{*}, F. Mehrkens^{*}, P. Neumann^{*}, R.
Neurath^{*}, R. Steinmann^{*}, N. Trumpik^{*}, P. Werdenbach-Jarklowski^{*}, H. Hu, J. Li, Y.
Zheng, E. Stutzmann, M. Schimmel, C. Hammer, B. Knapmeyer-Endrun, S. C. Stähler, N.
Brinkman, S. Kedar, F. Euchner, B. Fernando, M. Tsekhmistrenko, K. Hosseini, C. Haindl,
H. Godwin, A. Szenicer, T. Garth, and A. Allam
Preparing for InSight: Evaluation of the Blind Test for Martian Seismicity
submitted to *Seismol. Res. Lett.*
- S. Stähler, M. Panning, **C. Hadziioannou**, R.D. Lorenz, S. Vance, K. Klingbeil, S. Kedar
Seismic signal from waves on Titan's seas
Submitted to *Earth and Planetary Science Letters*

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 rota-
tional ground motions, In: *"Moment Tensor Solutions - A Useful Tool for Seismotectonics"*
(Springer; Editor: Sebastiano D'Amico), **2018**
- A. Schmidt, C. Sens-Schönfelder, **C. Hadziioannou**, U. Wegler, E. Niederleithinger (Ed-
itors), Noise and Diffuse Wave Fields, Extended Abstracts of the Neustadt Workshop,
Mitteilungen Deutsche Geophysikalische Gesellschaft e.V., Sonderband IV/2012; **2012**

OUTREACH

- A. Morelli, **C. Hadziioannou**, C. Bean.
Time Dependent Seismology. *Impact* 2017, no. 1 p74-76, **2017**

FUNDING	Emmy Noether Fellowship (DFG): approximately 860 k€	2013 – 2018
	University of Hamburg investment fund CliSAP–CliCCS: 75 k€ + 1 year PhD position	2017
	University of Hamburg "Lehrlabor" for developing innovative didactic courses	2018 – 2019
	1 year PhD position + 4500€ for student assistants	
TEACHING	Supervision of 3 PhD students, 14 MSc projects.	
	Seminar Seismologie , MSc course at Universität Hamburg (2 SWS)	2017-present
	Surface & Body wave Seismology , MSc course at Universität Hamburg, lectures and exercises (2+1 SWS)	2017-present
	Seismologie , BSc course (6. Sem) at Universität Hamburg, lectures and exercises (2+2 SWS)	2017-present
	Seismic noise spectra and polarisation , TIDES training school on seismic data, Bertinoro, Italy	2015
	Geophysikalische Datenanalyse , BSc course at LMU München, lectures and exercises (2+1 SWS)	2015
	Geophysical Data Acquisition and Analysis , MSc course at LMU München, lectures and exercises (2+2 SWS)	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, 2 SWS)	2011 & 2012
INVITED PRESENTATIONS	Lecturer at Cargese Summer School "Ambient Noise Imaging and Monitoring"	2019
	Keynote at the EAGE "1st Conference on Geophysics for Infrastructure Planning Monitoring and BIM"	
	Invited Talk at University of Oxford, UK	
	Invited Talk at Christian-Albrechts-Universität Kiel, Germany	2018
	Invited Talk at Ruhr-Universität Bochum, Germany	
	Lecturer at Cargese Summer School "Ambient Noise Imaging and Monitoring"	2017
	Trainer at the TIDES 2nd training school, Sesimbra, Portugal	2016
	Invited Talk at WAVES workshop "Advances in Imaging", Delft, the Netherlands	
	Trainer at the TIDES 1st training school, Bertinoro, Italy	2015
	Invited Talk at the Swiss Seismological Service, ETH, Zurich, Switzerland	
	Invited Talk at Westfälische Wilhelms-Universität Münster, Germany	
	Invited Talk at Utrecht University, Utrecht, the Netherlands	2014
	Invited Talk at Géoazur, Sophia-Antipolis, France	2013
	Invited Talk at ETH Zurich, Switzerland	
	Invited Talk at Universität Leipzig, Germany	2011
	Invited Talk at Quest workshop, Sardinia	2010
TOOLS	Rotational Seismology Event Database	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.	
	Seismo-Live (http://seismo-live.org/)	
LANGUAGES	Contribution of teaching notebooks, e.g. "Signal Processing", "Ambient Seismic Noise", "Rotational Seismology"	
	<i>Written & spoken fluently:</i>	English, Dutch, French
	<i>Conversational:</i>	German
	<i>Basic knowledge:</i>	Greek