

Curriculum Vitæ – Laura A. Ermert

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Born 07.05.1987

Nationality: German

Professional experience

- 1.12.2024 – currently **Chaire de professeur junior** at CNRS assigned to Institut des Sciences de la Terre (ISTerre), Grenoble, France
[Working on ambient seismic noise modeling and imaging](#)
- 1.05.2023 – 30.11.2024 **Established Researcher I** and Swiss Postdoctoral Fellow, Swiss Seismological Service, ETH Zurich, Switzerland
[Working on ambient seismic noise \(modeling and applications\)](#)
- 1.05.2022 – 30.04.2023 **Scientific Collaborator I**, Swiss Seismological Service, ETH Zurich, Switzerland
[Working on modeling microseismic event waveforms for deep geothermal reservoir](#)
- 15.01.2021 – 30.04.2022 **Postdoctoral scholar**, University of Washington, Seattle WA, USA
[Working on ambient noise monitoring of subsidence in the Mexico City basin](#)
- 15.01.2020 – 14.01.2021 **Postdoctoral fellow**, Harvard University, Cambridge MA, USA
[Working on ambient noise monitoring of subsidence in the Mexico City basin](#)
- 23.09.2019 – 18.10.2019 **Short-term visitor**, Earthquake Research Institute, University of Tokyo, Tokyo, Japan
Host: Prof. Kiwamu Nishida
- 01.04.2018 – 30.09.2019 **SNF Postdoc mobility fellow**, University of Oxford, Oxford, UK
[Working on ambient noise source inversion](#)

Education

- 01.05.2013 – 29.03.2018 **Doktorin der Wissenschaften** (Dr. sc. ETH), ETH Zurich, Zurich, Switzerland
Date of PhD defense: 30. June 2017, Advisor: Prof. Andreas Fichtner
Thesis title: Ambient seismic source inversion
- 12.09.2011 – 11.04.2013 **Master of Science** in Geophysics (MSc ETH with distinction), ETH Zurich, Zurich Switzerland, Advisors: Dr. Valerio Poggi, Dr. Jan Burjanek, Prof. Donat Fäh
Thesis title: New strategies for the identification of 2-D basin resonances
- 01.09.2009 – 20.12.2009 **Visiting student** at the University of California, Berkeley, USA
- 17.09.2007 – 11.01.2011 **Bachelor of Science** in Earth Sciences (BSc ETH), ETH Zurich, Zurich, Switzerland

04.09.2006 – 03.08.2007

Propædeutic studies at Leibniz Kolleg, Tübingen, Germany

Awards

2013	ETH Medal (Outstanding MSc thesis award)
2013	Swiss society for earthquake engineering and structural dynamics MSc thesis award
2007 – 2013	Scholar of the German National Academic Foundation

Publication record

Orcid ID	0000-0001-9862-2710
Scopus	Author ID 56257413900 19 documents 373 citations excluding self-citations h-index 12 excluding self-citations
Published peer-reviewed articles, first author	7
Published peer-reviewed articles, co-author	10

Invited talks and seminars

06.02.2024	ISTerre Grenoble, France	Modeling continuous waveforms of induced seismicity sequences - and other adventures at low amplitude <i>Special Seminar</i> , Organizer: Waves & Structure Group
01.02.2024	INGV Bologna, Italy	Ambient seismic noise monitoring from Mexico City to the Swiss Alps <i>Special Seminar</i> . Organizer: Luigi Passarelli
07.03.2023	Univ. degli studi di Padova, Italy	Tiny shakes: Utilizing and modeling ambient seismic noise and induced seismic sequences <i>Special seminar</i> . Organizer: Lapo Boschi
20.05.2022	ETH Zurich, Zurich, Switzerland	Monitoring seasonal, earthquake and subsidence effects on v_s underneath Mexico City <i>Mini-Symposium on ambient seismic noise</i> . Organizer: Andreas Fichtner
07.02.2022	Remote seminar	Monitoring the Mexico City basin with ambient seismic noise <i>RSES geophysics seminar, Australian National University</i> . Organizer: Chengxin Jiang
21.06.2021	Remote seminar	Imaging ambient seismic sources <i>SIAM Conference on Mathematical & Computational Issues in the Geosciences</i> Organizer: Rhys Hawkins
29.03.2021	Remote seminar	Modeling cross-correlations with variable noise sources <i>University of Utah "SeismoTea"</i> . Invited by: Monique Holt
27.09.2019	Academia Sinica, Taipei, Taiwan	Ambient noise cross-correlation modelling and inversion <i>Frontiers in Seismic Interferometry workshop</i> . Organizer: Hsin-Hua Huang
21.06.2018	Univ. of Utrecht,	Imaging ambient seismic sources

	Netherlands	<i>Doctoral defense symposium of Nienke Blom. Organizer: Nienke Blom</i>
24.05.2018	Harvard University, Cambridge, USA	Ambient noise source inversion in a heterogeneous Earth <i>Earthquake seismology group seminar. Invited by: Marine Denolle</i>
13.02.2017	Univ. of Oxford, Oxford, UK	First results from a global-scale ambient noise source inversion <i>Oxford Seismology group seminar. Invited by: Tarje Nissen-Meyer</i>

Funding

Since 2023	Project partner, High Frequency Earthquake Modeling (HighFEM, Swiss Data Science Center)
Since 2023	Swiss Postdoctoral Fellowship (Grant Number 209941)
2019	Earthquake Research Institute (University of Tokyo) short-term visitor
2019	Roland Schlich Travel grant, EGU General Assembly (Conference fee waiver)
2018 – 2019	Swiss National Science Foundation Postdoc Mobility (Grant Number 175124)
2016	Japanese Society for the Promotion of Science Strategic Fellowship (3 months)

Teaching and teaching assistance

2024	Co-lecturer “Bachelor Seminar II”, BSc, ETH Zurich, 2 ECTS, ~40 students
2022, 2023	Co-lecturer “Geophysical Data Processing”, MSc, ETH Zurich, 3 ECTS, ~15 students
2018	Vector Calculus, Earth Science undergraduate, Oxford University (Michaelmas term)
2013 – 2015	Geophysical Fieldwork, Earth Science undergraduates, ETH Zürich (2-3 field days)
2011	Dynamische Erde for Earth Science undergraduates, ETH Zürich
2010	Mathematik I & II for Earth / Agriculture / Food Science, ETH Zürich

Co-supervision of students

2021	Natasha Toghramadjian (Harvard University). Main supervisor of the project: Marine Denolle
2019	Kristiina Joon (University of Oxford). Main supervisor: Tarje Nissen-Meyer
2018	Jonas Igel (ETH Zurich). Co-supervision with Andreas Fichtner
2016	Myrna Staring and Evan Delaney (ETH Zurich). Main supervisor: Andreas Fichtner

Peer Review

Manuscript reviews provided for *Geophysical Journal International* (Outstanding reviewer 2019), *Journal of Geophysical Research: Solid Earth* (Editor's citation for excellence in refereeing 2019), *Geophysical Research Letters*, *Seismica*, *Comptes Rendus Geosciences*, *Seismological Research Letters*, *Acta Geophysica*, *Interpretation*, *Science*

Book chapter reviews provided for *Cambridge University Press*, *Advances in Geophysics*

Conference session organization

2022	EGU General assembly session "Ambient Seismic Noise & Seismic Interferometry" (co-convener)
2021	AGU Fall meeting session "Correlation seismology" (co-convener)
2021	EGU General assembly session "Ambient seismic noise" (lead convener)
2020	Webinar series "Correlation seismology" (co-organizer)
2020	AGU Fall meeting session "Correlation seismology" (co-convener)
2020	EGU General assembly session "Ambient seismic noise" (co-convener)
2019	EGU general assembly session "Ambient seismic noise" (co-convener)

Outreach and workplace initiatives

2021	University of Washington College of the Environment Postdoc "Pecha Kucha" lightning talks (speaker)
2016 – 2018	EGU seismology division blog co-editor 2016-2018 (Blog posts)
2018	Co-organizer "Seismology for non-seismologists" at EGU General Assembly
2017	Co-founder of ETH Dept. of Earth Sciences "help!desk" for PhD students
2015	Co-organizer, ETH Dept. of Earth Sciences PhD retreat 2015