HARRIET C.P. LAU

Address		Department of Earth & Planetary Sciences Harvard University 20 Oxford Street Cambridge, Massachusetts 02138
EMAIL & TELE	PHONE	USA harrietlau@fas.harvard.edu; +1 (617) 495-9694
Positions	2017 – onwards	Junior Fellow Society of Fellows, Harvard University, USA
EDUCATION	2012 - 2017	Harvard University, USA Ph.D. in Earth and Planetary Sciences Thesis Advisor: Prof. Jerry X. Mitrovica
	2008 - 2012	IMPERIAL COLLEGE LONDON, UK Master of Science in Geophysics (with First Class Honors) Thesis Advisors: Dr. Saskia Goes & Dr. Rhodri Davies
	2010 - 2011	MASSACHUSETTS INSTITUTE OF TECHNOLOGY, USA Visiting student, Department of Earth Atmospheric & Planetary Sciences Academic Advisor: Prof. Daniel Rothman
Awards	2016	American Geophysical Union (AGU) Study of the Deep Earth Interior Graduate Research Award
	2016	Harvard Graduate School of Arts and Sciences Merit Research Fellowship
	2015	Geophysical Journal International's Best Student Author Award for "A normal mode treatment of semi-diurnal body tides on an aspherical, rotating and anelastic Earth"
	2015	Departmental Shaler Teaching Award for Introduction to Global Geophysics (Fall 2014)
	2013 - 2017	The Harvard Bok Center's Certificate for Distinction in Teaching (2013–2015, 2017)
	2013	The AGU Outstanding Student Paper Award for the oral presentation of "Constraining Deep Earth Structure Using Tidal Tomography"
	2012	Imperial College's ESE Student Centenary Prize for outstanding Masters Theses
	2008 - 2012	Imperial College's Ash Music Scholarship for piano studies at the Royal College of Music
TEACHING	2013 – 2017	Teaching Fellow for undergraduate courses "Global Geophysics" and "A Brief History of Earth" (Harvard)
	2014	Volunteer Virtual Teaching: Remote lessons in natural disasters at Spring Hill Elementary School, Austin, TX
	2011 - 2012	Teaching Assistant for undergraduate course in Statistics/Computing (Imperial)
	2009 – 2010	Volunteer science teacher at elementary schools in disadvantaged areas in London (Pimlico Connection)
Memberships	2013 – present	European Geosciences Union
	2012 - present	American Geophysical Union
	2012 – present	Associate of the Royal School of Mines

Conference/Workshop Presentations

- American Geophysical Union (Dec 2017): Oral presentation titled "Constraining LLSVP Buoyancy With Tidal Tomography" (Abstract number: DI43C-06)
- American Geophysical Union (Dec 2016): Oral presentation titled "Tidal Tomography: New Insights into Long Wavelength Deep Mantle Buoyancy Structure" (Abstract number: DI23C-05)
- Study of the Deep Earth Interior Meeting (July 2016): Poster presentation titled "Anelasticity across seismic to tidal timescales: a self-consistent approach"
- PLIOMAX Workshop (Grant funded by NSF) (Jan 2016): Oral presentation titled "Revisiting Viscosity and its Importance in Predicting Long-Term Sea Level"
- European Geosciences Union (April 2015): Poster presentation titled "Towards Tidal Tomography: Using Earth's Body-Tide Signal to Constrain Deep-Mantle Density Structure" (Abstract ID: 9131)
- American Geophysical Union (Dec 2014): Poster presentation titled "Tidal Tomography: Constraining Long-Wavelength Deep Mantle Structure Using Earth's Body Tide Signal" (Abstract number: DI41A-4315)
- American Geophysical Union (Dec 2013): Oral presentation titled "Constraining Deep Earth Structure Using Tidal Tomography" (Abstract number: DI41B-01)

INVITED TALKS/SEMINARS

University of Michigan, Mar 2018, Smith Lecture

McGill University, Feb 2018, Earth and Planetary Sciences Department GEOTOP Lecture

Massachussetts Institute of Technology, May 2017, Special Seminar

University of California Berkeley, March 2017, Berkeley Earth and Planetary Science Departmental Seminar

Brown University, February 2017, Lunch Bunch Seminar

Princeton University (Geosciences Department), October 2016, Brown Bag Seminar

Springer International Publishing.

Columbia University (LDEO), April 2016, Marine Geology and Geophysics/Seismology, Geodesy and Tectonics Seminar

SERVICE

2017	NSF Proposal Reviewer	
2015	Graduate student field trip leader to the southwest US (10 days in Arizona, Utah, and Nevada)	
2014 - 2015	Solid Earth graduate student seminar organizer	

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2014 - 2015	Solid Earth graduate student seminar organizer	
Publication	NS	
2017	Lau, H.C.P. , Davis, J.L., Mitrovica J.X., Tromp, J., Al-Attar, D., Latychev, K., and Yang, HY. "Using Tidal Tomography to Constrain Deep Mantle Buoyancy", <i>Nature</i> , 551:321-326.	
2017	Wilmes, SB., Mattias Green, J.A., Gomez, N., Rippeth, T.P., and Lau, H.C.P. "Global tidal impacts of large-scale ice-sheet collapses", <i>Journal of Geophysical Research: Oceans</i> , 122.	
2017	Lau, H.C.P., Faul, U., Mitrovica, J.X., Al-Attar, D., Tromp, J., and Garapic, G. "Anelasticity across Seismic and Tidal Timescales: a Self-Consistent Approach", <i>Geophysical Journal International</i> , 208(1): 368-384.	
2016	Hay, C.C., Lau, H.C.P., Gomez, N., Austermann, J., Powell, E., Mitrovica, J.X., Latychev, K., and Wiens, D. "Sea-level fingerprints in a region of complex Earth structure: The case of WAIS", <i>Journal of Climate</i> , 30(6): 1881-1892.	
2016	Lau, H.C.P., Mitrovica, J.X., Austermann, J., Crawford, O., Al-Attar, D., and Latychev, K. "Inferences of Mantle Viscosity Based on Ice Age Datasets: I. Radial Structure", <i>Journal of Geophysical Research: Solid Earth</i> , 121: 6991-7012.	
2016	Goldberg, S., Lau, H.C.P., Mitrovica, J.X., and Latychev, K. "The Timing of the Black Sea Flood Event: Insights from Modeling of Glacial Isostatic Adjustment", Earth and Planetary Science Letters 452: 178-184.	
2015	Lau, H.C.P., Yang, HY., Tromp, J., Mitrovica, J.X., Latychev, K., and Al-Attar, D., "A normal mode treatment of semi-diurnal body tides on an aspherical, rotating and anelastic Earth", <i>Geophysical Journal International</i> 202(2): 1392-1406.	
2015	Davies, D.R., Goes S., Lau, H.C.P. "Thermally Dominated Deep Mantle LLSVPs: A Review" in "The Earth's Heterogeneous Mantle: A Geophysical, Geodynamical, and Geochemical Perspective". Khan, A., Deschamps, F. (Eds).	