

Samer N. Naif

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RESEARCH INTERESTS

Exploration of tectonic margins and oceanic plates with magnetotelluric, controlled-source electromagnetic (EM), and active-source seismic imaging methods.

EDUCATION

Ph.D., Earth Sciences	2015
Scripps Institution of Oceanography, UC San Diego	
M.S., Earth Sciences	2011
Scripps Institution of Oceanography, UC San Diego	
B.S., Environmental Engineering	2009
University of California, San Diego	

EMPLOYMENT HISTORY

Assistant Professor	2020–present
Georgia Institute of Technology	
Adjunct Research Scientist	2020–present
Lamont-Doherty Earth Observatory, Columbia University	
Lamont Assistant Research Professor	2018–2020
Lamont-Doherty Earth Observatory, Columbia University	
Postdoctoral Fellow	2015–2018
Lamont-Doherty Earth Observatory, Columbia University	

SELECTED PROFESSIONAL ACTIVITIES

Member , Faulting and Earthquake Cycles working group <i>SZ4D Research Coordination Network</i>	2020–present
Member , Electromagnetic Advisory Committee <i>Incorporated Research Institutions for Seismology</i>	2020–present
Co-convener , Tectonophysics session on sediment subduction <i>Fall AGU meeting</i>	2019
Reviewer <i>EPSL; EP&S; G-cubed; GJI; GRL; JGR; JVGR; Nature Comm.; Nature Geo.; Science Adv.</i>	

TEACHING EXPERIENCE

EAS 2600: Earth Processes

Fall 2021

Instructor

EAS 4312/6312: Geodynamics

Spring 2021

Instructor

EESC G6950: EM Geophysics

Spring 2020

Guest lecturer

PEER-REVIEWED PUBLICATIONS

**student/postdoc first authors are underlined*

- [10] **S. Naif**, N.C. Miller, D.J. Shillington, A. Bécel, *et al.* (*in prep*). Episodic intraplate magmatism fed by a long-lived melt channel of distal plume origin.
- [9] D. Blatter, **S. Naif**, K. Key, and A. Ray (*in review*). A plume origin for hydrous melt channels at the lithosphere-asthenosphere boundary.
- [8] C. Chesley, **S. Naif**, K. Key, and D. Bassett (2021). Fluid-rich subducting topography generates anomalous forearc porosity. *Nature*, 595, 255–260.
- [7] **S. Naif**, K. Selway, B.S. Murphy, G. Egbert, and A. Pommier (2021). Electrical conductivity of the lithosphere-asthenosphere system. *PEPI*, 313, 106661.
- [6] E. Attias, K. Weitemeyer, S. Hölz, **S. Naif**, *et al.* (2018). CSEM joint inversion for high-resolution resistivity imaging of sub-seafloor structures. *GJI*, 214, 1701–1714.
- [5] **S. Naif** (2018). An upper bound on the electrical conductivity of hydrated oceanic mantle at the onset of dehydration melting. *EPSL*, 482, 357–366.
- [4] E. Attias, R.L. Evans, **S. Naif**, J. Elsenbeck, and K. Key (2017). Conductivity structure of the lithosphere-asthenosphere boundary beneath the eastern North American Margin. *Geochem Geophys Geosyst*, 18, 676–696.
- [3] **S. Naif**, K. Key, S. Constable, and R.L. Evans (2016). Porosity and fluid budget of a water-rich megathrust revealed with electromagnetic data at the Middle America Trench. *Geochem Geophys Geosyst*, 17, 4495–4515.
- [2] **S. Naif**, K. Key, S. Constable, and R.L. Evans (2015). Water-rich bending faults at the Middle America Trench. *Geochem Geophys Geosyst*, 16, 2582–2597.
- [1] **S. Naif**, K. Key, S. Constable, and R.L. Evans (2013). Melt-rich channel observed at the lithosphere-asthenosphere boundary. *Nature*, 495, 356–359.