

Anant Hariharan

Vitaé

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🌐 <https://ananthariharan1996.github.io/>



PhD Student exploring Earth structure and dynamics via seismology, with interests in seismology and inverse theory

Research Positions

- 2018–Present **Graduate Research Fellow**, *Brown University*, Providence, RI.
- 2017 **IRIS Seismology Research Intern**, *University of Maryland, College Park*, College Park, MD.
- 2015–2018 **Research Assistant, Cornell Seismology Group**, *Cornell Univ.*, Ithaca, NY.
- 2014–2015 **Research Assistant, Cornell Mineral Physics Group**, *Cornell Univ.*, Ithaca, NY.

Education

- 2018–Present **Geophysics Graduate Student: Expected Graduation: 2023**, *Brown Univ.*, Providence, RI.
Supervisor: Colleen Dalton
- 2014–2018 **B.A, Double Majors in Physics and Geological Sci.**, *Cornell Univ.*, Ithaca, NY,
Summa Cum Laude, with Distinction in all Subjects.
Honors Thesis: Beyond the Main Ethiopian Rift: A Perspective from Seismology
- 2011–2014 **International Baccalaureate**, *CIS Bangalore*, Bangalore, India, *45/45 points.*

Awards

- 2018–Present **NSF Graduate Research Fellowship**, *National Science Foundation*.
“The NSF Graduate Research Fellowship Program recognizes and supports outstanding graduate students in NSF-supported science, technology, engineering, and mathematics disciplines who are pursuing research-based Master’s and doctoral degrees at accredited United States institutions.”
- 2016–2018 **Hunter R. Rawlings III Cornell Presidential Research Scholar**, *Cornell University*, Ithaca, NY.
The program provides students who demonstrate superior academic potential and intellectual curiosity significant research support throughout their under- graduate careers.
- 2018 **Chester Buchanan Memorial Award**, *Department of Earth and Atmospheric Sciences, Cornell University*.
Given each year to an “outstanding senior majoring in geology” recommended by the faculty.
- 2014–2018 **Tanner Dean’s Scholar of the College of Arts and Sciences**, *Cornell University*.
Awarded to a small group of incoming students in the college of Arts and Sciences.

- 2014–2017 **Dean's List**, *Cornell University*, Ithaca, NY.
Indicative of outstanding academic achievement
- 2017 **Michael William Mitchell Memorial Fund**, *Department of Earth and Atmospheric Sciences, Cornell University*, Ithaca, NY.
An award to "outstanding juniors or seniors majoring in Science of Earth Systems."
- 2016 **SEG Scholarship**, *Society of Exploration Geophysicists*.
SEG merit-based Scholarships encourage the study of geophysics and related geosciences.

Positions Held

- 2020–Present **Student Representative**, *AGU Seismology Section* .
- 2019–2020 **Treasurer**, *Graduate Student Association* .

Publications

- [1] Anant Hariharan, Colleen Dalton, Zhitu Ma, and Goran Ekstrom. Evidence of overtone interference in fundamental-mode rayleigh wave phase and amplitude measurements. In *Revision at JGR*, 2019.
- [2] Anant Hariharan, Vedran Lekic, Pritwiraj Moulik, and Frederik Simons. Multi-scale comparisons of mantle heterogeneity from tomographic models and geodynamic simulations. In *Prep for G-cubed*, 2020.
- [3] Mainak Mookherjee, David Mainprice, Ketan Maheshwari, Olle Heinonen, Dhenu Patel, and Anant Hariharan. Pressure induced elastic softening in framework aluminosilicate-albite (naalsi 3 o 8). *Scientific reports*, 6:34815, 2016.
- [4] Mainak Mookherjee, Jun Tsuchiya, and Anant Hariharan. Crystal structure, equation of state, and elasticity of hydrous aluminosilicate phase, topaz-oh (al₂SiO₄ (oh)₂) at high pressures. *Physics of the Earth and Planetary Interiors*, 251:24–35, 2016.
- [5] Erica Nathan, Anant Hariharan, Darien Florez, and Karen Fischer. Anisotropy of the greenland mantle. In *Prep for GRL*, 2020.

Computing Skills

- Languages MATLAB & Octave, Python, Fortran, Shell Scripting, CSS3 & HTML5, LaTeX
- Software Seismic wave Propagation with SPECFEM2D and SPECFEM3DGLOBE, Crystallo-
- Packages graphic analysis with VESTA. Vector Graphics manipulation with Inkscape, Adobe Illustrator. Seismic data processing with Antelope and SAC (Seismic Analysis Code).