

## Noah Randolph-Flagg (方诺然)

### Education

- 2019 Ph.D., [Earth & Planetary Science, University of California at Berkeley](#);  
advisor: [Michael Manga](#)
- 2011 B.A., [Geology, Carleton College](#), *magna cum laude*;  
Certificate of Advanced Language Study in Chinese
- 2006 [Harvard Summer Session](#), Astrobiology and Political Philosophy

### Work Experience

- 2025 - *present* Assistant Professor, [Dept. Earth and Environmental Science](#), U. Kentucky, Lexington, KY
- 2023 - 2024 Lecturer, "[Environmental Geology](#)", UC Berkeley, CA
- 2021- 2024 Scientist, [Blue Marble Space](#) at [NASA Ames](#), Mountain View, CA
- 2019-2021 NASA Postdoctoral Fellow, NASA Ames, Mountain View, CA,  
Exobiology, supervisor: [Tori Hoehler](#)
- 2018 Instructor, *Planet Earth*, Summer Session, UC Berkeley, CA
- 2013-2016 Graduate Student Instructor, UC Berkeley  
*Planet Earth* (2013)  
*Structural Geology* (2015)  
*Stratigraphy and Earth History* (2016)
- 2012-2018 Pathways Intern, U.S. Geological Survey (USGS), Menlo Park, CA  
Volcano Hazards, advisor: Shaul Hurwitz, Steve Ingebritsen
- 2010-2011 Teaching Assistant, Carleton College  
*Geomorphology* (2010)  
*Environmental Geology* (2011)
- 2009-2011 Hydrologic Technician, Volcano Hazards, USGS, Menlo Park, CA

### Awards and Grants

- 2025-2018 NASA Habitable Worlds , Co-I, "Effect of climate on habitability of Martian hot springs"
- 2023 [NASA Exceptional Scientific Achievement Medal](#)
- 2019-2021 [NASA Postdoctoral Fellowship](#), NASA Ames

- 2017            [Outstanding Graduate Student Instructor](#), UC Berkeley
- 2015            [Outstanding Student Paper Award](#), talk, 2015 AGU Fall Meeting
- 2015            [NSF East Asia Pacific Summer Research Fellowship](#), Taiwan
- 2013-2016    [NSF Graduate Research Fellowship](#), Hydrology
- 2011-2012    [Fulbright Student Research Fellowship](#), Hydrology, Xi'an, China
- 2008            [Kolenkow-Reitz Fellowship for Undergraduate Research](#), Carleton College

## **Publications**

### **Service and Public Outreach**

- Member of steering committee, [Network for Ocean Worlds \(NOW\)](#) -- [NASA Astrobiology Research Coordination Network](#)
- Reviewer NASA, GSA Bulletin, Chemical Geology, PEPI, etc.
- Featured in PBS's [Physics Girl](#) YouTube video on Hawaiian Volcanism. ~7M views
- Bishop column research featured in [ABC 10 Sacramento](#), [LA Times](#), [Washington Post](#), [Minneapolis Star Tribune](#), [Le Temps](#) (French, Switzerland), [Epoch Times](#) (Chinese), [Phys.org](#), [The Sheet](#), [Frankfurt General Newspaper](#) (German), and [West Hawaii Today](#).
- Graduate Student Representative (2014-2015) UC Berkeley, Dept. of Earth and Planetary Science
- Graduate Student Mentor (2012-2015) UC Berkeley New Experiences for Research & Diversity in Science (NERDS)
- “NOVA: World’s Deadliest Volcanoes,” PBS NOVA, WGBH Boston, 04 January 2012.

### **Skills and Interests**

- English (native), Chinese (conversational)
- Experience with Python, R, MATLAB, Julia, Obspy, MSNoise, QGIS, EQ3/6, HYDROTHERM, Ash3D, HYSPLIT
- Competitive runner & triathlete.

### **Recent and Upcoming Conference presentation schedule (\*student presenter)**

#### **2024 Geological Society of America Fall Meeting (Anaheim)**

- (talk, Tue) Braised Ignimbrite: Intra-caldera ignimbrite cooling as a mechanism for Li enrichment

#### **2024 Astrobiology Conference (Providence)**

- (Fisher et al., Mon) Low Gravity on Ocean Worlds Can Help to Sustain Low-to-Moderate Temperature Hydrothermal Circulation

- (talk, Weds) Where is sediment on Enceladus and what does it mean for life detection?
- (invited talk, Fri) Phosphate availability and implications for life on ocean worlds
- (Ely et al., Fri) The Fate of Silica Particles Within the Ocean of Enceladus