

Brian P. Kelly

Department of Geological Sciences
University of Florida
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Education

Ph.D., Geology

University of Florida - Aug. 2024
Advisor: Dr. Raymond M. Russo

B.S., Geology

University of Florida - Aug. 2018

Professional Experience

AI Prompt Engineer (Freelance)

Remote, Jan. 2025 - present

Graduate Researcher & Teaching Assistant

University of Florida, Gainesville, FL, 2019 – 2024

USGS Pathways Intern

Geologic Hazards Science Center, Golden, CO, May 2022 – Aug. 2022 & May 2023 – Aug. 2023

Awards & Honors

Ernst Teaching Award

Department of Geological Sciences, University of Florida, 2023

Thompson Scholarship

Department of Geological Sciences, University of Florida, 2021

Proposals, Grants and Fellowships

Raymond T. Skirvin Graduate Fellowship

Department of Geological Sciences, University of Florida, 2020

ACCESS/XSEDE NSF Supercomputing Allocation

Granted 2022-2023, Renewed 2023-2024

Publications

[Link to Google Scholar](#)

Manuscripts in Preparation

- 2) **Kelly, B.P.**, Withers, K.B., Moschetti, M.P. Development of a Rupture Directivity Adjustment Model to the Median and Aleatory Variability of Ground Motion Models (*to be submitted to Earthquake Spectra*).
- 1) **Kelly, B.P.**, Russo, R.M. Attenuation Tomographic Imaging of the 2015 M_W 8.3 Illapel, Chile, Earthquake Rupture Region (*to be submitted to Geochemistry, Geophysics, Geosystems*).

Abstracts

- 6) **Kelly, B.P.**, Withers, K.B., Moschetti, M.P., 2022. Development of a Seismic Directivity Adjustment Model to the Median and Aleatory Variability of Ground Motion Models. [Abstract #S46A-01] American Geophysical Union, Fall Meeting 2022, Chicago, IL, 12-16 Dec.
- 5) **Kelly, B.P.**, Russo, R.M., 2022. Attenuation Tomographic Mapping of Interplate Asperities in the 2015 Mw 8.3 Illapel, Chile, Earthquake Rupture Region. [Abstract #T12E-0122] American Geophysical Union, Fall Meeting 2022, Chicago, IL, 12-16 Dec.
- 4) **Kelly, B.P.**, Russo, R.M., 2021. Attenuation Tomography of the 2015 Mw 8.3 Illapel, Chile Earthquake Rupture Region. [Abstract #S25D-0269] American Geophysical Union, Fall Meeting 2021, New Orleans, LA, 13-17 Dec.
- 3) **Kelly, B.P.**, Russo, R.M., Roecker, S.W., Comte, D., 2020. Attenuation-based tomography of the 2015 Illapel, Chile earthquake rupture region. [Abstract #T053-0002] American Geophysical Union, Fall Meeting 2020, Online Everywhere, 1-17 Dec.
- 2) **Kelly, B.P.**, Russo, R.M., 2019. Attenuation tomographic imaging of the 2015 Illapel, and 2010 Maule, Chile, earthquake rupture regions. [Abstract #S41F-0588] American Geophysical Union, Fall Meeting 2019, San Francisco, CA, 9-13 Dec.
- 1) Adams, P.N., Conlin, M.P., Johnson, H.A., Paniagua-Arroyave, J.F., Woo, H.B., **Kelly, B.P.**, 2017. Hurricane Irma's Effects on Dune and Beach Morphology at Matanzas Inlet, Atlantic Coast of North Florida: Impacts and Inhibited Recovery? [Abstract #U32B-04] American Geophysical Union, Fall Meeting 2017, New Orleans, LA, 11-15 Dec.

Professional Development and Training

Geological Sciences Organization for Graduate Students (GSOGS)
Mentorship Committee Organizer, 2021-2024

NSF Grant Writing Workshop

UF Society for the Advancement of Chicanos/Hispanics and Native Americans in Science, 2021

Fundamentals of Accelerated Computing with CUDA C/C++ (Certified)

NVIDIA Deep Learning Institute Workshop, 2021

Fundamentals of Deep Learning (Certified)

NVIDIA Deep Learning Institute Workshop, 2021

Teaching Experience

University of Florida

Geology Field Camp (GLY4790)

TA, Summer 2024

Earth Materials (GLY3202C)

TA, Fall 2022 & Fall 2023

Groundwater Geology (GLY4822/5827)

TA, Spring 2021, Spring 2023, Spring 2024

Geology of Florida (GLY4155C)

TA, Spring 2022

Introduction to Earth Science (ESC1000)

TA, Fall 2021

Florida Geology Lab (GLY1150L)

Instructor of Record, Summer 2021

TA, Fall 2019

Earthquakes, Volcanoes and Other Hazards (GLY1880)

TA, Spring & Fall 2020

Age of Dinosaurs (GLY1102)

TA, Summer 2020

**Public
Outreach**

Science Tales: Engineering for Earthquakes

Invited Virtual Talk, Alachua County Library District, Oct. 2021

“Can You Dig It?” Geology Outreach Event

Booth Volunteer, Florida Museum of Natural History, Gainesville, FL, Mar. 2017, Mar. 2018, Apr. 2022 & Apr. 2023

Family Science and Robotics Night

UF Geology Booth, Howard Bishop Middle School, Oct. 2016

References

Raymond Russo

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Kyle Withers

Research Geophysicist, Geologic Hazards Science Center, USGS

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Alessandro Forte

Professor of Geology, University of Florida

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