

# Jack Sheehan

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## EDUCATION

### Harvard University

Ph.D. Earth and Planetary Sciences (Expected) 2027

Secondary Field Data Science

A.M. Earth and Planetary Sciences (Expected) 2025

### Rice University

B.S. Earth, Environmental, & Planetary Sciences 2022

B.A. German Studies 2022

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## SELECT HONORS

Future Investigator in NASA Earth and Space Science and Technology, NASA 2024

Michael H. Freilich Data Visualization Competition Runner Up, AGU 2024

Teaching Fellow Special Recognition, Harvard Undergraduate Association 2023

Early Career Scientist Award, International Union of Crystallography 2023

Earth and Planetary Science Merit Award, Harvard University 2022

Distinction in Research and Creative Work, Rice University 2022

Distinction in Research and Creative Work, Rice University 2022

Sam Worden Endowed Memorial Award in Geophysics, Rice University 2022

National College Champion Semifinalist, Jeopardy! 2021

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## RESEARCH EXPERIENCE

Science Mission Design School, NASA JPL 2025

Graduate Research Assistant, Harvard University 2022–Present

Undergraduate Research Assistant, IRIS 2021

Undergraduate Research Assistant, SCEC 2021

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## TEACHING EXPERIENCE

Bok Teaching Certification, Harvard University 2023–Present

Graduate Teaching Fellow, Harvard University 2022–Present

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## PUBLICATIONS

J. Sheehan, Q. Zhai, Y. Chuang, T. Officer, Y. Wang, Z. Peng. “Applying EQTransformer to laboratory earthquakes: detecting and picking acoustic emissions with machine learning.” *Earth, Planets and Space* 77, 116. <https://doi.org/10.1186/s40623-025-02237-2>.

J. Sheehan, Q. Zhai, Y. Chuang, T. Officer, Y. Wang, Z. Peng. “Machine learning 2022

detection of P-waves in laboratory acoustic emission events.” *Rice University Research Repository*. doi.org/10.25611/MF2H-9609.

J. Sheehan, A. Oesmann. “Die Lautere Wahrheit: Tatsachenphantasie in Döblins und Fassbinders Berlin Alexanderplatz.” *Rice University Research Repository*. 2021

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## SELECT PRESENTATIONS

“From Atoms to Planets,” *AGU Data Visualization Student Showcase*. [Talk] 2025

“Constraining Late Accretion From Metal–Silicate Partitioning of Highly Siderophile Elements During Core Formation,” *AGU Fall Meeting*. [Poster] 2024

“Constraining Late Accretion From Metal–Silicate Partitioning of Highly Siderophile Elements During Core Formation,” *AGU Fall Meeting*. [Poster] 2023

“Applying EQTransformer to Laboratory Earthquakes: Detecting and Picking Acoustic Emissions,” *Study of Earth’s Deep Interior GRC*. [Poster] 2023

“Earthquake Music: Utilizing Machine-Learning to Detect Acoustic Emission Events,” *Rice Shapiro Showcase*. [Invited Talk] 2022

“Anticracking During Olivine’s Transition to Ringwoodite as a Mechanism for Deep-Focus Earthquakes,” *Graduate Interdisciplinary Earth Science Symposia*. [Talk] 2022

“Machine Learning Detection of P-Waves in Laboratory Acoustic Emission Events to Understand the Mechanics of Deep-Focus Earthquakes,” *AGU Fall Meeting*. [Poster] 2022

“Using Machine Learning to Detect Laboratory Nanofractures,” *Rice Natural Sciences Research Fair*. [Poster] 2021

“Acoustic Emission Detection of Deep-Focus Earthquakes Using EqTransformer,” *FRES Intermediate Depth Earthquake Group Annual Meeting*. [Invited Talk] 2021

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## OUTREACH AND SERVICE

SEI Ambassador, SOTL Nanotechnology and Policy 2025

Undergraduate Mentor, PhannyPacc Phan 2025–Present

Science Education Partner, Harvard Museums of Science and Culture 2024–Present

Graduate Mentor, Graduate Admissions Assistance Program 2024–Present

Alumni Interviewer, Rice Alumni Volunteers for Admission 2022–Present

Mineral & Geologic Archival Volunteer, Harvard Museum of Natural History 2022–2023