

# 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, 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

Graduate Research Assistant 2022–Present

Center for Nanoscale Systems User 2022–Present

Advanced Photon Source User 2022–Present

Undergraduate Research Assistant 2020–2022

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## TEACHING EXPERIENCE

Bok Teaching Certification 2023–Present

Graduate Teaching Fellow 2022–Present

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## PUBLICATIONS

“Applying EQTransformer to Laboratory Earthquakes: Detecting and Picking Acoustic Emissions” J. Sheehan, Q. Zhai, Y. Chuang, T. Officer, Y. Wang, Z. Peng. *In Prep*.

“Machine learning detection of P-waves in laboratory acoustic emission events” J. Sheehan, Q. Zhai, Y. Chuang, T. Officer, Y. Wang, Z. Peng. *Undergraduate Thesis, Rice University, 2022*. doi.org/10.25611/MF2H-9609.

“Die Lautere Wahrheit: Tatsachenphantasie in Döblins und Fassbinders Berlin Alexanderplatz”  
J. Sheehan, A. Oesmann. *Undergraduate Thesis, Rice University*, 2022.

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#### SELECT PRESENTATIONS

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| “Constraining Late Accretion From Metal–Silicate Partitioning of Highly Siderophile Elements During Core Formation,” <i>AGU Fall Meeting</i> . [Poster]                  | 2023 |
| “Earthquake Music: Utilizing Machine-Learning to Detect Acoustic Emission Events,” <i>Rice Shapiro Showcase</i> . [Invited Talk]   | 2022 |
| “Anticracking During Olivine’s Transition to Ringwoodite as a Mechanism for Deep-Focus Earthquakes,” <i>Graduate Interdisciplinary Earth Science Symposia</i> . [Talk]   | 2022 |
| “Machine Learning Detection of P-Waves in Laboratory Acoustic Emission Events to Understand the Mechanics of Deep-Focus Earthquakes,” <i>AGU Fall Meeting</i> . [Poster] | 2022 |
| “Using Machine Learning to Detect Laboratory Nanofractures,” <i>Rice Natural Sciences Research Fair</i> . [Poster]   | 2021 |
| “Acoustic Emission Detection of Deep-Focus Earthquakes Using EqTransformer,” <i>FRES Intermediate Depth Earthquake Group Annual Meeting</i> . [Invited Talk]             | 2021 |
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#### OUTREACH AND SERVICE

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| 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    |