Haiyang Liam Kehoe

Contact

Department of Geosciences
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Education

University of Arizona — Tucson, AZ
Ph.D. Geosciences (GPA: 4.0/4.0) — Expected May 2022
Advisor: Eric Kiser

University of California, San Diego — La Jolla, CA
B.S. Physics (GPA 3.3/4.0) — June 2017
Advisors: Mark Thiemens and Subrata Chakraborty

Professional Experience

University of Arizona — Tucson, AZ
Graduate Research and Teaching Assistant — August 2017–Present

University of California, San Diego — La Jolla, CA
Undergraduate Research Assistant — April 2015–June 2017

Publications

1. **Kehoe, H. L.**, E. D. Kiser, and P. G. Okubo (2019). The rupture process of the 2018 M_W 6.9 Hawai'i earthquake as imaged by a genetic algorithm-based back-projection technique. *Geophysical Research Letters*, 46, 2467–2474. https://doi.org/10.1029/2018GL080397

Presentations

7. **Kehoe, H. L.**, E. D. Kiser, and P. G. Okubo. Complex rupture properties of the 2018 M_W 6.9 Hawai'i earthquake as imaged by a genetic algorithm-based back-projection technique. Oral presentation at the *University of Arizona Geosciences Symposium*, Tucson, AZ, 28–30 March 2019.
6. **Kehoe, H. L.**, E. D. Kiser, and P. G. Okubo. The rupture process of the 2018 M_W 6.9 Hawai'i earthquake as revealed by a genetic algorithm-based source imaging technique. Oral presentation at the *American Geophysical Union Fall Meeting*, Washington, D.C., 10–14 December 2018.
5. **Kehoe, H. L.** and E. D. Kiser. Back-projection results of the 4 May 2018 Hawaii earthquake using a genetically optimized sub-array selection scheme. Poster presentation at the *IRIS Workshop*, Albuquerque, NM, 12–14 June 2018.
4. **Kehoe, H. L.** and E. D. Kiser. Genetic algorithm optimization applied to back-projection sub-array selection. Poster presentation at the *University of Arizona Geosciences Symposium*, Tucson, AZ, 12–14 April 2018.
3. **Kehoe, H. L.**, S. Chakraborty, T. L. C. Pham, E. Alvarado, and M. H. Thiemens. $\Delta^{17}O$ Trends of Collected Atmospheric CO_2 Resulting from Seasonal Changes in the Biosphere. Poster presentation at the *American Geophysical Union Fall Meeting*, San Francisco, CA, 12–16 December 2016.

2. **Kehoe, H. L.** and S. Chakraborty. Synthesis of Oxides over a Dust Surface Analog. Oral presentation at the *29th UC San Diego Undergraduate Research Conference*, La Jolla, CA, 23 April 2016.
1. Chakraborty S., **H. L. Kehoe**, and M. H. Thiemens. New experimental evidence of silicate formation with meteorite like oxygen isotopes on a dust surface analog. Oral Presentation at the *Lunar Planetary Science Conference XXXXVII*, Houston, TX, 21–25 March 2016.

Awards

Best Geophysics Talk, UA Geosciences Symposium ($300)	March 2019
UA GPSC Travel Grant ($750)	December 2018
IRIS Workshop Student Scholarship ($500)	June 2018
Best Overall Poster, UA Geosciences Symposium ($200)	April 2018
UA Graduate Access Fellowship ($8,000)	August 2017
Lee Davis Family and Sulzer Scholarship ($4,638)	August 2017
Provost Honors, UC San Diego	June 2015, 2016, 2017
UC San Diego Physics Chair's Challenge ($300)	December 2016
Excellence in Research and Presentation, UC San Diego	April 2016

Field Experience

Lassen Volcanic National Park Nodal Deployment	July–August 2019
White Wolf Fault Active Source Nodal Deployment	January–February 2019
Grand Teton National Park Nodal Deployment	June–July 2018
Raton, New Mexico Nodal Deployment	May-June 2018
Joshua Tree National Monument Nodal Deployment	October 2017

Teaching Experience

Teaching Assistant:	
GEOS 322: Introduction to Geophysics	Spring 2018
GEOS 212: Introduction to Oceanography	Fall 2018

Service

UA GeoClub President	August 2019–Present
Website Administrator (http://earth.geo.arizona.edu)	March 2019–Present
UA GPSC Travel Grant Judge	February 2019–Present
Website Co-Administrator (http://geo.arizona.edu/gsat)	October 2017–Present

Organizations

American Geophysical Union	August 2016–Present
Seismological Society of America	February 2018–Present