

## **Haiyang Liam Kehoe**

Department of Geosciences, University of Arizona, 1040 E. 4th Street, Tucson, AZ 85721

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### **Education**

University of Arizona

Tucson, AZ

Ph.D. Geosciences

Expected May 2022

GPA: 4.000/4.000

University of California, San Diego

La Jolla, CA

B.S. Physics with Specialization in Earth Sciences

June 2017

GPA: 3.309/4.000

### **Experience**

University of Arizona

Tucson, AZ

Graduate Research/Teaching Assistant

August 2017 – Present

Advisor: Eric Kiser

University of California, San Diego

La Jolla, CA

Undergraduate Research Assistant

April 2015 – June 2017

Advisors: Mark Thiemens, Subrata Chakraborty

### **Publications**

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

### **Presentations**

**Kehoe, H. L.**, E. D. Kiser, P. G. Okubo. Complex rupture properties of the 2018 Mw 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.

**Kehoe, H. L.**, E. D. Kiser, and P. G. Okubo. The rupture process of the 2018 Mw 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.

**Kehoe, H. L.**, 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.

**Kehoe, H. L.,** 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.

**Kehoe, H. L.,** S. Chakraborty, T. L. C. Pham, E. Alvarado and M. H. Thiemens.  $\Delta^{17}\text{O}$  Trends of Collected Atmospheric  $\text{CO}_2$  Resulting from Seasonal Changes in the Biosphere. Poster presentation at the *American Geophysical Union Fall Meeting*, San Francisco, CA, 12-16 December 2016.

**Kehoe, H. L.,** 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.

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 and Honors

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

### Field Experience

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

### Teaching Experience

Teaching Assistant:

GEOS 212: Introduction to Oceanography (University of Arizona)

GEOS 322: Introduction to Geophysics (University of Arizona)

### Service

GeoClub President, UA	August 2019 – Present
Website Administrator (earth.geo.arizona.edu), UA	March 2019 – Present

Graduate and Professional Student Council Travel Grant Judge, UA  
Website Co-Administrator ([geo.arizona.edu/gsat](http://geo.arizona.edu/gsat)), UA

February 2019 – Present  
October 2017 – Present

**Organizations**

American Geophysical Union  
Seismological Society of America

August 2016 – Present  
February 2018 – Present