

## Haiyang Liam Kehoe

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1040 E. 4<sup>th</sup> Street <https://seismolo.gy>  
Tucson, AZ 85721
- 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** 8. **Kehoe, H. L.**, E. D. Kiser. A genetic algorithm-based back-projection method reveals the bilateral and supershear rupture of the 2017  $M_w$  7.8 Komandorsky Islands earthquake. Poster presentation at the *American Geophysical Union Fall Meeting*, San Francisco, CA, 9–13 December 2019.
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.  $\Delta^{17}\text{O}$  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.

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 XXXVII*, Houston, TX, 21–25 March 2016.

<b>Awards</b>	UA GPSC Travel Grant (\$750)	December 2018, 2019
	Best Geophysics Talk, UA Geosciences Symposium (\$300)	March 2019
	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
<b>Teaching Experience</b>	Teaching Assistant (UA):	
	GEOS 322: Introduction to Geophysics	Spring 2018
	GEOS 212: Introduction to Oceanography	Fall 2018
<b>Field Experience</b>	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
<b>Service</b>	UA GeoClub President	August 2019–Present
	UA GPSC Grants Judge	February 2019–Present
<b>Organizations</b>	American Geophysical Union	August 2016–Present
	Seismological Society of America	February 2018–Present