Bryce A. Mitsunaga

Postdoctoral Researcher
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Education

Brown University — *Providence, RI*
PhD, Earth, Environmental, and Planetary Sciences — *2024*
MS, Earth, Environmental, and Planetary Sciences — *2020*
Advisors: Profs. James Russell & Timothy Herbert

University of California, Los Angeles — *Los Angeles, CA*
MS, Geochemistry — *2018*
Advisor: Prof. Aradhna Tripati

Williams College — *Williamstown, MA*
BA, Geosciences — *2013*

Employment History

Syracuse University — *Syracuse, NY*
NSF Postdoctoral Fellow — *2026-2028*
Advisor: Prof. Tripti Bhattacharya

Harvard University — *Cambridge, MA*
Postdoctoral Researcher — *2024-2026*
Advisor: Prof. Kevin Uno

International Ocean Discovery Program — *Bridgeport, CT*
Organic Geochemist, IODP Exp. 501: New England Shelf Hydrogeology — *2025-2026*

International Ocean Discovery Program — *Lisbon, Portugal*
Organic Geochemist, IODP Exp. 397: Iberian Margin Paleoclimate — *2023*

Iris Environmental — *Irvine, CA*
Staff Scientist — *2014-2015*

American Geosciences Institute — *Alexandria, VA*
EARTH Magazine Extern — *2013-2014*

Research Fellowships & Grants – Awarded

2025	NSF-EAR Postdoctoral Fellowship: "When the Levee Breaks: Ibero-African Hydroclimate at the Mio-Pliocene Re-Flooding of the Mediterranean"	$335,000

2023	GSA Graduate Student Research Grant	$2,200
2023	IODP Post-Expedition Activity Award	$20,000
2023	Institute at Brown for Environment and Society Graduate Research, Training, and Travel Award	$5,500
2022	GSA Graduate Student Research Grant	$2,500
2017	International Association of Geochemistry PhD Student Research Grant	$1,500
2016	NSF Graduate Research Fellowship	$100,000

Funding Proposals – Submitted

- Lowery, C., Pérez Cruz, L., Gibson, J., Austin, J., Eberli, G., Escobar, E., Isola, J., Labonté, J., Matos, L., **Mitsunaga, B.**, Nicholson, U., Pérez-Drago, G., Prado, J., Thirumalai, K., Todes, J., Fucugauchi, J., Weislogel, A., Wright, J., Yang, H., Yeager, S., Zavala, J., Standring, P., 2025, In the Loop: Western boundary current onset and evolution in the southeastern Gulf of Mexico, *International Ocean Drilling Programme (IODP^3)*.

Refereed Journal Articles – Published, Accepted

* Undergraduate advisee / mentee

1. Hodell, D., Crowhurst, S., Vautravers, M., Rolfe, J., Du, M., Herbert, T., Huang, H.-H., Abrantes, F., Alvarez Zarikian, C., **Expedition 397 Scientists**, 2025, Data report: composite section and chronology of Site 339-U1385 and 397-U1385 based on postcruise XRF analysis. *Proceedings of the International Ocean Discovery Program*. Accepted.
2. Abrantes, F., Magalhães, V., Hodell, D.A., Herbert, T.D., Alonso-Garcia, M., Castaño, M., Ferreira, F., Freitas, M., Gebara, L., Gil, I., Gonzáles-Martín, M., Lopes, A., Lopes, C., Matos, L., Mega, A., Molina, G., Naughton, F., Oliveira, D., Rebotim, A., Rodrigues, T., Salgueiro, E., Santana, A., Treyos-Tamayo, R., Alvarez Zarikian, C., **Expedition 397 Scientists**, 2025, Data report: an improved splice using XRF data, IODP Expedition 397 Site U1586. *Proceedings of the International Ocean Discovery Program*. https://doi.org/10.14379/iodp.proc.397.202.2025.
3. **Mitsunaga, B.**, Jewell, A., Buchanan, S.*, Crocker, A., Wilson, P., Herbert, T., Russell, J., 2025, Plio-Pleistocene decoupling of the Northwest African summer and winter monsoons. *Science Advances*. https://doi.org/10.1126/sciadv.ads3149.
4. Crocker, A., Jewell, A., **Mitsunaga, B.**, Buchanan, S.*, Brombacher, A., Hambach, B., Wilding, M., Westerhold, T., Röhl, U., Russell, J., Herbert, T., Xuan, C., Wilson, P., 2025, Increased North African dust fluxes and higher productivity in the Eastern

Equatorial Atlantic Ocean linked to stronger trade winds from about 2.7 million years ago. *Paleoceanography and Paleoclimatology*. https://doi.org/10.1029/2024PA004891.

5. McLean, D., Horn, E., Aguiar, S., Barton, N., Brown, R., Carolin, S., Day, C., Kuhlmann, H., Kutterolf, S., **Mitsunaga, B.**, O'Mara, N., Pacheco, J., Pimentel, A., Ramalho, R., Schindlbeck-Belo, J., Stoetzel, E., Styring, A., Uno, K., Vidyarthi, V., Xu, Y., Smith, V., 2024, Opportunities to synchronise and date archaeological and climate records in Northwest Africa using volcanic ash (tephra) layers. *Libyan Studies*. https://doi.org/10.1017/lis.2024.18.
6. Arnold, A., Mering, J., Santi, L., Román-Palacios, C., Li, H., Petryshyn, V., **Mitsunaga, B.**, Elliott, B., Wilson, J., Lucarelli, J., Boch, R., Ibarra, D., Li, L., Fan, M., Kaufman, D., Cohen, A., Dunbar, R., Russell, J., Lalonde, S., Roy, P., Dietzel, M., Liu, X., Chang, F., Eagle, R., Tripati, A., 2024, Comparative clumped isotope temperature relationships in freshwater carbonates. *The Depositional Record*. https://doi.org/10.1002/dep2.312.
7. **Mitsunaga, B.**, Ouertani, S.*, Lupien, R., Stubbs, B.*, Deino, A., Kingston, J., Stockhecke, M., Brown, E., Russell, J., 2023, High-latitude, Indian Ocean, and orbital influences on eastern African hydroclimate across the Plio-Pleistocene boundary. *Paleoceanography and Paleoclimatology*. https://doi.org/10.1029/2023PA004671.
8. Bricker, H.*, Bateman, J., Elliott, B., **Mitsunaga, B.**, Mering, J., Foster, J., Yanes, Y., Oches, E., Eagle, R., Tripati, A., 2023, A multi-region study of carbonate clumped isotope data from terrestrial snails. *Palaeogeography, Palaeoclimatology, Palaeocology*. https://doi.org/10.1016/j.palaeo.2023.111754.
9. Hodell, D., Abrantes, F., Alvarez Zarikian, C., **Expedition 397 Scientists**, 2023, Expedition 397 Preliminary Report: Iberian Margian Paleoclimate. International Ocean Discovery Program. https://doi.org/10.14379/iodp.pr.397.2023.
10. Lopez-Maldonado, R., Bateman, J., Ellis, A., Bader, N., Ramirez, P., Arnold, A., Ajoku, O., Lee, H., Jesmok, G., Upadhyay, D., **Mitsunaga, B.**, Elliott, B., Tabor, C., Tripati, A., 2023, Paleoclimate changes in the Pacific Northwest over the past 36,000 years from clumped isotope measurements and model analysis. *Paleoceanography and Paleoclimatology*. https://doi.org/10.1029/2021PA004266.
11. **Mitsunaga, B.**, Novak, J., Zhao, X., Dillon, J., Huang, Y., Herbert, T., 2022, Alkenone δ^2H values – a viable seawater δ^2H proxy? New core-top $\delta^2H_{C37:3}$ and $\delta^2H_{C37:2}$ values suggest inter-alkenone and alkenone-water hydrogen isotope fractionation are independent of temperature and salinity. *Geochimica et Cosmochimica Acta*. https://doi.org/10.1016/j.gca.2022.10.024.
12. Li, L., Fan, M., Davila, N.*, Jesmok, G., **Mitsunaga, B.**, Tripati, A., Orme, D., 2018, Carbonate clumped and oxygen isotope evidence for late Eocene high elevation of the east-central Tibetan Plateau. *GSA Bulletin*. https://doi.org/10.1130/B32060.1.

Refereed Journal Articles – In Revision, Submitted, in Preparation _____

- **Mitsunaga, B.**, Dellinger, A.*, Smolen, J., McLean, D., Schefuß, E., Kuhlmann, H., Smith, V., Barton, N., Uno, K., The paleoenvironmental context for *Homo sapiens*

evolution and settlement of northwestern Africa: Late Pleistocene Moroccan hydrology, vegetation, fire, and temperature dynamics. In preparation.

- **Mitsunaga, B.**, Müller, T., Hutchings, J., Konecky, B., Duggan, B., Johannesson, K., Robinson, R., Everest, J., Stewart, M., **IODP^3-NSF Expedition 501 Scientists**, Hydrogen and triple oxygen isotopic constraints on Laurentide ice sheet composition and offshore freshened groundwater source. In preparation.
- **Mitsunaga, B.**, Bauersachs, T., Duggan, B., Johannesson, K., Robinson, R., Everest, J., Stewart, M., **IODP^3-NSF Expedition 501 Scientists**, Microbial community composition in a New England Shelf offshore submarine freshwater aquifer derived from intact polar lipids. In preparation.
- Hodell, D., Abrantes, F., Alvarez Zarikian, C., Herbert, T., Du, M., Crowhurst, S., Mleneck-Vautravers, M., Rolfe, J., Chen, X., Brooks, H., Clark, W., Dauchy-Tric, L., dos Santos Rocha, V., Flores, J-A., Hines, S., Huang, H-H., Ikeda, H., Kaboth-Bahr, S., Kuroda, J., Link, J., McManus, J., **Mitsunaga, B.**, Nana Yobo, L., Pallone, C., Pang, X., Péral, M., Salgueiro, E., Sanchez, S., Verma, K., Wu, J., Xuan, C., Yu, J., Haygood, L., Magalhães, V., Alonso-Garcia, M., Castaño, M., Ferreira, F., Freitas, M., Cordeiro, L., Gil, I., González-Martín, M., Lopes, A., Lopes, C., Martín-García, L., Matos, L., Mega, A., Molina, G., Naughton, F., Oliveira, D., Rebotim, A., Rodrigues, T., Santana, A., Trejos-Tamayo, R., Abrupt onset of glacial millennial climate variability with the intensification of Northern Hemisphere glaciation. In revision, *Science*.
- **Mitsunaga, B.**, Ouertani, S.*, Lupien, R., Stubbs, B.*, Deino, A., Kingston, J., Stockhecke, M., Brown, E., Russell, J., Higher rainfall, expanding grasslands: Evidence for an enhanced seasonal precipitation regime in Plio-Pleistocene eastern Africa. Submitted, *Geology*.
- **Mitsunaga, B.**, Mering, J., Li, T., Bateman, J., Burford, S.*, Eagle, R., Li, G., Tripati, A., Isotopic and petrographic analyses of pedogenic carbonates across the Pleistocene-Holocene boundary in the Chinese Loess Plateau. In revision, *Geochemistry, Geophysics, Geosystems*.

Invited Talks

1. **Mitsunaga, B.**, 2025, Astronomical forcing of tropical African monsoons, Department of Geological and Environmental Sciences, Appalachian State University.
2. **Mitsunaga, B.**, Wu, J., Hodell, D., Abrantes, F., Alvarez Zarikian, C., Expedition 397 Scientists, 2024, Orbital-scale variability in Miocene-Holocene sediment source, terrestrial hydrology, and ecology along the Iberian Margin – Initial results from IODP Expedition 397, Fall 2024 Meeting of the American Geophysical Union.
3. **Mitsunaga, B.**, 2024, High- and low-latitude forcing of African hydroclimate across the Plio-Pleistocene boundary, MARUM, University of Bremen.
4. **Mitsunaga, B.**, Lupien, R., Jewell, A., Ouertani, S.*, Buchanan, S.*, Stubbs, B.*, Deino, A., Kingston, J., Stockhecke, M., Brown, E., Crocker, A., Herbert, T., Russell, J., 2023, On the heterogeneity of Plio-Pleistocene African hydroclimate: Processes and patterns

from North (ODP Site 659) and East (Baringo-Tugen Hills-Barsemoi Basin) Africa, Geological Society of America Annual Meeting.

Talks

Upcoming

1. *Herbert, T., Hodell, D.,* ***IODP Expedition 397 Scientists,*** *2025, Millennial temperature variability in the North Atlantic began at ~2.72 Ma. Fall Meeting of the American Geophysical Union.*
2. **Mitsunaga, B.**, Dellinger, A.*, McLean, D., Schefuß, E., Kuhlmann, H., Smith, V., Barton, N., Uno, K., 2025, Climatic forcing of early human development: Insights from Pleistocene NW African Marine Records, 27th Biennial Meeting of the Society of Africanist Archaeologists.
3. **Mitsunaga, B.**, Lupien, R., Jewell, A., Ouertani, S.*, Buchanan, S.*, Stubbs, B.*, Deino, A., Kingston, J., Stockhecke, M., Brown, E., Crocker, A., Herbert, T., Russell, J., 2023, On the heterogeneity of Plio-Pleistocene African hydroclimate: Processes and patterns from North (ODP Site 659) and East (Baringo-Tugen Hills-Barsemoi Basin) Africa, Fall Meeting of the American Geophysical Union.
4. **Mitsunaga, B.**, Lupien, R., Jewell, A., Ouertani, S.*, Buchanan, S.*, Stubbs, B.*, Deino, A., Kingston, J., Stockhecke, M., Brown, E., Crocker, A., Herbert, T., Russell, J., 2023, On the heterogeneity of Plio-Pleistocene African hydroclimate: Processes and patterns from North (ODP Site 659) and East (Baringo-Tugen Hills-Barsemoi Basin) Africa, XXI International Union for Quaternary Research Congress.
5. **Mitsunaga, B.**, Ouertani, S.*, Lupien, R., Stubbs, B.*, Deino, A., Kingston, J., Stockhecke, M., Brown, E., Russell, J., 2022, A wetter East Africa at 3 Ma? Lipid biomarker records of Plio-Pleistocene hydroclimatic change from the Baringo-Tugen Hills-Barsemoi Basin, Kenya, 7th International Hominid Sites and Paleolakes Drilling Project meeting.
6. **Mitsunaga, B.**, Ouertani, S.*, Lupien, R., Stubbs, B.*, Deino, A., Kingston, J., Stockhecke, M., Brown, E., Russell, J., 2022, A wetter East Africa at 3 Ma? Lipid biomarker records of Plio-Pleistocene hydroclimatic change from the Baringo-Tugen Hills-Barsemoi Basin, Kenya, Brown University Climate & Environment ("Lunch Bunch") seminar.
7. **Mitsunaga, B.**, Novak, J., Zhao, X., Dillon, J., Huang, Y., Herbert, T., 2020, Alkenone-specific δ^2H: A New Global Core Top Dataset and Its Implications for Paleo-Salinity and -Seawater δ^2H Reconstructions, Fall 2020 Meeting of the American Geophysical Union.
8. **Mitsunaga, B.**, Dillon, J., Zhao, X., Herbert, T., 2020, Alkenone-specific δ^2H: A new global core-top dataset and its implications for paleo-salinity and -seawater δ^2H reconstructions, Brown University Climate & Environment seminar.

Posters

1. ***Mitsunaga, B.****, Dellinger, A.*, Smolen, J., McLean, D., Schefuß, E., Kuhlmann, H., Barton, N., Uno, K., 2025, The Paleoclimatic Context for* Homo sapiens *Evolution and*

Development in Northwest Africa: Moroccan Hydrology, Vegetation, Fire, and Temperature Dynamics in the Late Pleistocene. Fall Meeting of the American Geophysical Union.

2. *Dugan, B., Robinson, R., Johannesson, K., Everest, J.,* ***IODP^3-NSF Expedition 501 Scientists****, 2025, IODP^3-NSF Expedition 501: Offshore Freshened Groundwater in the New England Continental Shelf. Fall Meeting of the American Geophysical Union.*
3. *Person, M., Dugan, B., Robinson, R., Johannesson, K., Everest, J.,* ***IODP^3-NSF Expedition 501 Scientists****, 2025, Preliminary analysis of continental shelf freshwater sand permeability on the New England Continental Shelf Offshore Martha's Vineyard and Nantucket, Massachusetts USA. Fall Meeting of the American Geophysical Union.*
4. *Smolen, J., Uno, K., Chearavanont, Z., Ferland, T.,* ***Mitsunaga, B.****, Benito-Calvo, A., Njau, J., de la Torre, I., 2025, Reconstructing the Landscape of Olduvai Gorge: An Evaluation of Organic Geochemical Proxies. Fall Meeting of the American Geophysical Union.*
5. **Mitsunaga, B.**, Dellinger, A.*, McLean, D., Schefuß, E., Kuhlmann, H., Barton, N., Uno, K., 2024, Climatic Forcing of Human Evolution and Migration in Late Pleistocene Northwest Africa: Paleohydrology, -Vegetation, -Fire, and -Temperature Insights from ODP Site 958 and GeoB 4216. Fall Meeting of the American Geophysical Union.
6. Stiles, E., Novak, J., **Mitsunaga, B.**, Hare, V., Saslaw, M., Rugenstein, J., Beck, C., Jukar, A., George, S., Lee, D., Strömberg, C., Uno, K., Vetter, L., Zhu, F., 2024, Global Terrestrial Hydrologic Change Since the Mid-Miocene Climatic Optimum: A New Compilation of Hydroclimate Proxy Records and Implications for Future Change. Fall Meeting of the American Geophysical Union.
7. **Mitsunaga, B.**, Wu, J., Herbert, T., Russell, J., Hodell, D., Abrantes, F., Alvarez Zarikian, C., Expedition 397 Scientific Party, 2024, Orbital-scale variability in Miocene-Holocene sediment source, terrestrial hydrology, and ecology along the Iberian Margin – Initial results from IODP Expedition 397. Miocene Climate Workshop: Exploring New Directions in Miocene Earth System Connections.
8. **Mitsunaga, B.**, Jewell, A., Buchanan, S.*, Crocker, A., Herbert, T., Russell, J., 2022, An orbital-scale reconstruction of changes in North African Rainfall, 2.5-3.1 Ma, using *n*-alkane-specific δ^2H values from ODP Site 659. Fall Meeting of the American Geophysical Union**.**
9. **Mitsunaga, B.**, Novak, J., Zhao, X., Dillon, J., Huang, Y., Herbert, T., 2022, Alkenone-specific δ^2H: A New Global Core Top Dataset and Its Implications for Paleo-Salinity and -Seawater δ^2H Reconstructions, Organic Geochemistry Gordon Research Conference.
10. **Mitsunaga, B.**, Stubbs, B.*, Lupien, R., Deino, A., Kingston, J., Stockhecke, M., Brown, E., Russel, J., 2019, A Leaf Wax Biomarker Record of Plio-Pleistocene Environmental Change from the Baringo Basin (Tugen Hills), Kenya, Fall Meeting of the American Geophysical Union.
11. **Mitsunaga, B.**, Mosenfelder, J., Tripati, A., 2017, Quantifying the Δ_{63}-Δ_{47} offset: Determining mineral- and temperature-dependent acid fractionation factors through mass

spectrometric analyses of stochastically-reordered carbonates, Fall Meeting of the American Geophysical Union.

12. **Mitsunaga, B.**, Mosenfelder, J., Tripati, A., 2017, Quantifying the Δ_{63}-Δ_{47} offset: Determining mineral- and temperature-dependent acid fractionation factors through mass spectrometric analyses of stochastically-reordered carbonates, Geological Society of America Annual Meeting.
13. **Mitsunaga, B.**, Burford, S.*, Mering, J., Eagle, R., Tripati, A., 2016, A reconstruction of temperature and $\delta^{18}O$ data since the Last Glacial Maximum using soil and gastropods from the Chinese Loess Plateau, Fall Meeting of the American Geophysical Union.
14. **Mitsunaga, B.**, Burford, S.*, Mering, J., Eagle, R., Tripati, A., 2016, A reconstruction of temperature and $\delta^{18}O$ data at the Last Glacial Maximum using soil and gastropods from the Chinese Loess Plateau, 5th International Clumped Isotope Workshop.
15. **Mitsunaga, B.**, Mering, J., Petryshyn, V., Dunbar, R., Cohen, A., Liu, X., Kaufman, D., Eagle, R., Tripati, A., 2014, A clumped isotope calibration for lacustrine carbonates, Geological Society of America Annual Meeting.
16. **Mitsunaga, B.**, Mering, J., Petryshyn, V., Dunbar, R., Cohen, A., Liu, X., Kaufman, D., Eagle, R., Tripati, A., 2014, A clumped isotope calibration for lacustrine carbonates, Fall Meeting of the American Geophysical Union.
17. **Mitsunaga, B.**, Mering, J., Petryshyn, V., Dunbar, R., Cohen, A., Liu, X., Kaufman, D., Eagle, R., Tripati, A., 2014, A clumped isotope calibration for lacustrine carbonates, 4th Annual International Workshop on Clumped Isotopes.

Teaching Assistantships

2022	Brown University	EEPS 1110: Descriptive Coastal and Estuarine Oceanography
2021		EEPS 1310: The Global Water Cycle
2015	University of California, Los Angeles	EPSS 1: Introduction to Earth Science

Undergraduate Mentorship

- Harvard University (3)
- Brown University (5)
- Rice University (1)
- University of California, Los Angeles (5)
- Williams College (1)

Science Communication & Press

- Knudson, J., Ancient Africa's Climate was Unexpectedly Rainy, Muddying the Story of Early Humans, 2025, *Discover*, https://www.discovermagazine.com/ancient-africas-climate-was-unexpectedly-rainy-muddying-the-story-of-early-47726.
- Stacey, K., New research casts doubt on ancient drying of northern Africa's climate, 2025, *News from Brown*, https://www.brown.edu/news/2025-06-20/africa.
- Mayer, A., "An incredible, sophisticated time machine." Brown University scientists drill into the past to help learn about our climate future, 2024, *The Public's Radio*, https://thepublicsradio.org/article/-an-incredible-sophisticated-time-machine-brown-university-scientists-drill-into-the-past-to-help-learn-about-our-climate-future/.
- **Mitsunaga, B.**, UCLA oceanographer suggests new way to test how global warming impact endangered corals, 2015, *California Metal Photography*, http://californiametalphoto.com/ocean_acidification_coral_reefs.pdf.
- **Mitsunaga, B.**, Crustal temperature explains uneven distribution of lunar impact craters, 2014, *EARTH Magazine*, print.
- **Mitsunaga, B.**, Undergraduates build and launch a satellite to measure atmospheric drag, 2013, *EARTH Magazine*, http://www.earthmagazine.org/article/undergraduates-build-and-launch-satellite-measure-atmospheric-drag.
- **Mitsunaga, B.**, Arsenic in wells in Vietnam suggests dig-deep approach has issues, 2013, *EARTH Magazine*, http://www.earthmagazine.org/article/arsenic-wells-vietnam-suggests-dig-deeper-approach-has-issues.
- **Mitsunaga, B.**, Blogging on EARTH: A letter from field camp, 2013, *EARTH Magazine*, http://www.earthmagazine.org/article/blogging-earth-letter-field-camp.

Workshops & Short Courses

University of Coimbra, Figuera da Foz campus	ICDP – Middle Jurassic Earth System and Timescale (M-JET)
Worcester State University	Teaching at Teaching Intensive Institutions
University of Arizona	Miocene Climate Workshop: Exploring New Directions in Miocene Earth System Connections
National Autonomous University of Mexico	Developing Strategies for the Scientific Investigation of Sediment Drifts on Campeche Bank, Gulf of Mexico
University of Nairobi	7th International Hominid Sites and Paleolakes Drilling Program workshop
Chicago	International Ocean Drilling Program Science Mission Requirements workshop

University of Arizona	5th International Hominid Sites and Paleolake Drilling Program workshop
Brown University	Sheridan Center Teaching Certificate I
Arizona State University	Secondary Ion Mass Spectrometry Workshop
University of Minnesota Twin Cities	LacCore Drilling and Coring Summer Institute
Urbino, Italy	9th International Course on Foraminifera

Outreach, Service, & DEI

- Co-convener, Fall Meetings of the American Geophysical Union
    - 2025: Paleoecological Perspectives on Past Climates
    - 2023: African Paleoclimate
    - 2022: Water Isotopes
- Harvard University
    - Human and Evolutionary Biology Diversity, Inclusion, and Belonging postdoctoral representative
- Peer reviewer at *Climate of the Past*, *Nature Communications*, *Organic Geochemistry*, *PLOS One*
- Brown University
    - AGiLE (AAPI in Geosciences: Inclusivity, Leadership, and Experience) REU coordinator (https://aapigeosci.org/resources/agile/)
    - Department of Earth, Planetary, and Space Sciences graduate student association ("GeoClub") first-year mentor coordinator, 2021-2023
    - GeoClub co-president, 2019-2020
    - Leadership Alliance (https://sites.brown.edu/sreip/) Study Group leader, 2019
- University of California, Los Angeles
    - Exploring Your Universe! 2017 – Team leader, Rocks, Minerals, and Fossils exhibit
    - Exploring Your Universe! 2016 – Team leader, Rocks and Minerals exhibit
    - Exploring Your Universe! 2015 – Team leader, Dinosaurs and Fossils exhibit