

# CURRICULUM VITAE

## GULEED ALI

---

### CURRENT POSITION

- **September 2025–present:** Assistant Professor at **SUNY Stony Brook**.

### EDUCATION

- **Columbia University.** PhD. 2018.  
Dissertation: “Late Glacial and Deglacial Fluctuations of Mono Lake, California”.
  - Mentored by Sidney Hemming
- **University of Arizona.** BS, *cum laude*. Geology. May 2010.
  - Mentored by Peter Reiners

### PAST POSITIONS AND RELEVANT WORK EXPERIENCE

- **2023–2025:** IDEA Fellow at **SUNY Stony Brook**.
  - Mentored by Troy Rasbury and William Holt
- **2022–2023:** Postdoctoral Researcher at the **Berkeley Geochronology Center** and **UC Berkeley**.
  - Mentored by Warren Sharp
- **2019–2021:** Research Fellow at the **Earth Observatory of Singapore**.
  - Mentored by Xianfeng Wang and Kerry Sieh
- **2018–2019:** Ford Foundation Postdoctoral Fellow at the **University of Maine**.
  - Mentored by Aaron Putnam

### PUBLICATIONS

8. **Ali, G.A., Lin, K.,** Hemming, S.R., Putnam, A.E., Sharp, W., Wang, X., Heinrich Event 1 caused the wettest century in the western US in at least 70,000 years (in reprep)
7. **Ali, G.A., Lin, K.,** Hemming, S.R., Wang, X., Carbonate U/Th ages confirm the Mono Basin excursion as the Laschamps Geomagnetic Excursion, *GSA Bulletin* (accepted)
6. **Ali, G.A.H., Lin, K.,** Hemming, S.R., Cox, S.E., Ruprecht, P., Zimmerman, S.R.H., Stine, S., and Wang, X., 2022, Emergence of wet conditions in the Mono Basin of the Western USA coincident with inception of the Last Glaciation: *GSA Bulletin*, p. 1–13, doi:10.1130/B36084.1.

5. Hodelka, B.N., McGlue, M.M., Zimmerman, S., **Ali, G.** and Tunno, I., 2020. Paleoproduction and environmental change at Mono Lake (eastern Sierra Nevada) during the Pleistocene-Holocene transition. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 543, p.109565, doi:10.1016/j.palaeo.2019.109565.
4. Hudson, A.M., Hatchett, B.J., Quade, J., Boyle, D.P., Bassett, S.D., **Ali, G.** and Marie, G., 2019. North-south dipole in winter hydroclimate in the western United States during the last deglaciation. *Scientific reports*, 9(1), p.4826, doi:10.1038/s41598-019-41197-y.
3. Fu, R.R., Weiss, B.P., Lima, E.A., Kehayias, P., Araujo, J.F., Glenn, D.R., Gelb, J., Einsle, J.F., Bauer, A.M., Harrison, R.J. and **Ali, G.A.**, 2017. "Evaluating the paleomagnetic potential of single zircon crystals using the Bishop Tuff". *Earth and Planetary Science Letters*, 458, pp.1-13, doi:10.1016/j.epsl.2016.09.038.
2. Hudson, A.M., Quade, J., **Ali, G.**, Boyle, D., Bassett, S., Huntington, K.W., Marie, G., Cohen, A.S., Lin, K. and Wang, X., 2017. "Stable C, O and clumped isotope systematics and <sup>14</sup>C geochronology of carbonates from the Quaternary Chewaucan closed-basin lake system, Great Basin, USA: Implications for paleoenvironmental reconstructions using carbonates". *Geochimica et Cosmochimica Acta*, 212, pp.274-302, doi: 10.1016/j.gca.2017.06.024.
1. **Ali GAH**, Reiners PW, Ducea MN. 2009. "Unroofing of Alabama and Poverty Hills basement blocks, Owens Valley, California from apatite (U-Th)/He thermochronology". *International Geology Review* 51 (9): 1034-1050, doi: 10.1080/00206810902965270.

## RECENT CONFERENCE PRESENTATIONS

- **Ali, G.A.**, Creel, R., McKenzie, M., Nguyen, H., (2025), Revisiting the last Juan de Fuca Lobe maximum using radiocarbon dating of sub-fossil logs across the Olympic Peninsula, northwest Washington, Abstract PP41E-1200 presented at AGU 25, 15–19 Dec 2025.
- Munoz-Saez, C., **Ali, G.A.**, Lin, K., Wang, X., (2024), U/Th ages of travertine deposition in the Eastern Sierra Nevada, Abstract PP33C-0564 presented at AGU24, 9-13 Dec 2024.
- Kong, Y., Zhang, J., Colon, L., **Ali, G.**, Coutts, D., (2024) Exploring VR applications in college classes: An SBU showcase, Hands-on Demo presented at the Conference on Instruction and Technology 2024, 21–24 May 2024.

- **Ali, G.A.**, Lin, K., Hemming, S.R., Stine, S.W., Wang, X., (2023), The great and sudden rise of Mono Lake 16,000 years ago, Abstract PP43D-1699 presented at AGU24, 11–15 Dec 2023.

## INVITED TALKS

- Pegrum Lecture, Dept. of Earth Sciences, **University of Buffalo**, *Sep 24, 2025*.
- Dept. of Geosciences, **University of Arizona**, *May 1, 2025*.
- Dept. of Earth Science..., **University of Illinois Urbana-Champaign**, *Apr 24, 2025*.
- Smith Lecture, Dept. of Earth..., **University of Michigan**, *Apr 11, 2025*.

## AWARDS AND HONORS

- **Ford Foundation Postdoctoral Fellowship**. 2018-2019.
- **Honorable Mention**. Ford Foundation Dissertation Fellowship. 2015.
- **Graduate Grant**. Geological Society of America. 2015.
- **East Asia and Pacific Summer Institute**. NSF. 2012. (awarded but did not accept)
- **Graduate Research Fellowship**. National Science Foundation. 2012-2015.
- **Patricia Hall Award**. National Association of Black Geologists and Geophysicists. 2010.
- **Outstanding Senior Award**. University of Arizona Department of Geosciences. 2009.
- **Best Student Paper**. National Association of Black Geologists and Geophysicists. 2009.
- **Galileo Circle Scholar**. University of Arizona. 2009.
- **Dean's List**. University of Arizona. 2009.
- **Ronald E. McNair Scholar**. 2008-2010.
- **Len Assante Scholarship**. National Groundwater Association. 2008.
- **Excellent Academics Award**. National Association of Black Geologists and Geophysicists. 2008.
- **Minority Participation Program**. American Geologic Institute. 2008.

## TEACHING EXPERIENCE

- **Architecture of Time**. Instructor. Fall 2025. Stony Brook University.
- **Introduction to Physical Geology**. Instructor. Fall 2024. Stony Brook University.
- **Introduction to Physical Geology**. Co-Instructor. Fall 2023. Stony Brook University.
- **Excursion to the Eastern Sierra Nevada**. Instructor. Spring 2022. Columbia University and Barnard College.

## FIELD INSTRUCTION

- **Summer Field Camp.** Teaching Assistant. Summer 2018. Summer 2019. Earth Observatory of Singapore and Nanyang Technological University
- **Outdoor Education Program of the Mono Lake Committee.** Geology Lecturer and Outdoor Guide. 2011-2024.

## SERVICE TO STONY BROOK UNIVERSITY

- Thesis Committee Member, **Leland Reisfield**, Department of Geosciences, Stony Brook University. December 2025.
- Preliminary Exam Committee Member, **Kirtee Ramo**, Department of Geosciences, Stony Brook University. November 2025.
- Preliminary Exam Committee Member, **Taylor Grandfield**, Department of Geosciences, Stony Brook University. April 2024.
- EDI Committee, Department of Geosciences, fall 2023–present.

## PRIOR SERVICE ACTIVITIES TO SCIENTIFIC COMMUNITY

- Co-Convener of *Observations and Dynamics of Deglaciations*. AGU Topical Session. 2015.
- Co-Convener of *Great Basin Hydroclimate*. GSA Topical Session. 2013.