

CURRICULUM VITAE

GUЛЕED 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 prep)
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 14C 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.

RESEARCH GRANTS

- IceTree
- Establishing a U-series protocol in the FIRST Lab, Stony Brook University, **Bodie Foundation**, \$7000, 2025–ongoing.

RECENT CONFERENCE PRESENTATIONS

- IceTree.
- 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

- Smith Lecture, Department of Earth and Environmental Sciences, **University of Michigan**, April 11, 2025.
- Department of Geosciences Colloquium, **University of Arizona**, May 1, 2025.
- Department of Earth Science and Environmental Change, **University of Illinois Urbana-Champaign**, April 24, 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.

FIELD INSTRUCTION

- **Excursion to the Eastern Sierra Nevada.** Instructor. Spring 2022. Columbia University and Barnard College.
- **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

- Preliminary Exam Committee Member, **Taylor Grandfield**, Department of Geosciences, Stony Brook University. April 2024.
- Equity, Diversity, and Inclusion Committee, Department of Geosciences, fall 2023–present.
- Department of Geosciences Representative, National Association of Black Geoscientists Annual Meeting, 2024 and 2025.

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.