

Guleed A. H. Ali

CURRENT POSITION:

Ford Foundation Postdoctoral Fellow at the **University of Maine**

EDUCATION

Columbia University New York, NY
PhD Geochemistry February 2018
Dissertation: *Late Glacial and Deglacial
Fluctuations of Mono Lake, CA*

University of Arizona Tucson, Arizona
BS, *cum laude*, Geology 2010

GRANTS AND AWARDS

Postdoctoral Fellowship 2018-2019
Ford Foundation

Honorable Mention 2015
Ford Foundation Dissertation Fellowship

Graduate Grant 2015
Geologic Society of America

Climate Center Grant 2014
Lamont-Doherty Earth Observatory

Climate Center Grant 2013
Lamont-Doherty Earth Observatory

Graduate Research Fellowship 2012 - 2015
National Science Foundation

Patricia Hall Award 2010
National Association of Black Geologists and Geophysicists

Outstanding Senior Award 2009
University of Arizona Department of Geosciences

Best Student Paper 2009
National Association of Black Geologists and Geophysicists

Galileo Circle Scholar 2009
University of Arizona

Dean's List Fall 2008
University of Arizona

Len Assante Scholarship 2008

National Groundwater Association

Excellent Academics Award 2008
National Association of Black Geologists and Geophysicists

Minority Participation Program 2008
American Geologic Institute

FIELD WORK

The fluctuations of Mono Lake, CA 25-9 ka 14 months between 2011-2018
stratigraphy; geomorphology; field sample collection

The last high stand of western US lakes 2013-2015
Stratigraphy; geomorphology; field sample collection

Field Assistant for a coring expedition at Mono Lake, CA 2015
led by M. McGlue (University of Kentucky)

Field Assistant for a study of Lake Bonneville 2010, 2013
led by D. McGee (now at MIT) and E. Steponaitis (now at Tulane University)

SERVICE

Co-Convener of *Observations and Dynamics of Deglaciations* 2014
Geologic Society of America Topical Session

Co-Convener of *Great Basin Hydroclimate* 2013
Geologic Society of America Topical Session

TEACHING

Teaching Assistant Summer 2018
Earth Observatory of Singapore Undergraduate Field Camp

Lecturer 2011-2015
Kids Without Borders, Los Angeles, NV

Field Lecturer and Guide 2011-2015
Outdoor Education Program, Mono Lake Committee

PUBLICATIONS

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.

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.

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.

INVITED TALKS

- The Fluctuations of Mono Lake During and Since the Last Ice Age* 2018
Departmental Colloquium at University of Kentucky, Lexington
- The Fluctuations of Mono Lake During and Since the Last Ice Age* 2017
Brown Bag Seminar at University of Maine, Orono
- Unearthing the Hydroclimatic Record of the Mono Basin, CA* 2014
Geology, Geochemistry, and Geobiology Seminar at MIT

PUBLIC TALKS

- Unearthing the Secrets of Mono Lake: a Geologic Perspective on the Last 70,000 years of Lake Fluctuation* 2015
Lee Vining, CA; California Department of Parks and Recreation
- Lessons on How to Unravel Mono Basin's Last Ice Age Climate* 2014
100 Conversations about Water during the Centenary of the Los Angeles Aqueduct
Metabolic Art Studio; Lone Pine, CA
- Mono's Cold Climate Conundrums* 2014
Refreshments with Refreshing Oologists; Lee Vining, CA
- Unearthing Climate Change* 2013
Refreshments with Refreshing Oologists; Lee Vining, CA

CONFERENCE TALKS (AS PRESENTER)

- Ali, G. A. H., Hemming, S. R., and Stine, S., Zimmerman, S. H., Wang, X., (2015), Extreme Low Stands of Late Pleistocene Mono Lake, CA; oral presentation, Comer Science Meeting
- Ali, G. A. H., Zimmerman, S. H., Wang, X., Hemming, S. R., and Stine, S., (2014), Unearthing the Hydroclimatic Record of the Mono Basin, CA; oral presentation, National Association of Black Geologists Annual Meeting
- Ali, G. A. H., Zimmerman, S. H., Wang, X., Hemming, S. R., and Stine, S., 2013, Last glacial maximum lake level oscillations in the Mono Basin, CA, *in* Geological Society of America, Abstracts with Programs, Denver, CO.
- Ali, G. A. H., Zimmerman, S. H., Wang, X., Hemming, S. R., and Stine, S., (2013), Unearthing the Hydroclimatic Record of the Mono Basin, CA; Comer Science Meeting; poster
- Ali, G. A. H., Zimmerman, S. H., Wang, X., Hemming, S. R., and Stine, S., (2012), A U-Th record of lake fluctuation from the Mono Basin, CA; oral presentation, Comer Science Meeting
- Ali, G.; Cox, S.; Hemming, S.; Steponaitis, E.; Zimmerman, S.; Wang, X.; Two-step

heating experiments on individual sanidine crystals from Ash 4 of the Wilson Creek Formation, Mono Basin, California, USA. Abstract 3061. (2011) Bern, Switzerland

Ali, GAH; Hemming, SR; Wang, X; Zimmerman SH; Using GIS-based Estimates of Paleovolume: Implications for Mono Lake Deglacial Hydroclimate, Geologic Society of America Annual Meeting 2011

Ali, GAH; Wang, X; Hemming, SR; Cox, SE; Zimmerman SH; Steponaitis, EA; Abrupt deglacial hydroclimate fluctuations from Mono Lake, CA, NABGG Annual Meeting 2011

Ali, G.; Cox, S.; Hemming, S.; Steponaitis, E.; Zimmerman, S.; Wang, X.; Two-step heating experiments on individual sanidine crystals from Ash 4 of the Wilson Creek Formation, Mono Basin, California, USA. Abstract 3061. (2011) INQUA Bern, Switzerland

Ali, GAH; Zimmerman SH; Hemming, SR; Cox, SE; LeRoy, SL; Steponaitis, EA; Wang, X; Chronology of High Lake Levels at Mono Lake during the Last Glacial Cycle, Geologic Society of America Annual Meeting 2009

Ali, GAH; Zimmerman SH; Hemming, SR; Cox, SE; LeRoy, SL; Steponaitis, EA; Wang, X; Two-step heating experiments on individual sanidine crystals from Ash 4 of the Wilson Creek Formation, Mono Basin, California, USA, NABGG Annual Meeting 2009

Ali, G A, Reiners, PW, Ducea M, (2008), Determining the origin of enigmatic bedrock structures using (U-Th)/He thermochronology: Alabama and Poverty Hills, Owens Valley, California, Eos Trans. AGU, 89(53), fall Meet. Suppl., T23C-2065

Ali, G A, Reiners, PW, Ducea M, (2008), Determining the origin of enigmatic bedrock structures using (U-Th)/He thermochronology: Alabama and Poverty Hills, Owens Valley, NABGG Annual Meeting 2008