

# BENJAMIN KEISLING

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## APPOINTMENTS

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Research Associate, University of Texas Institute for Geophysics, UT Austin 2022–  
Postdoctoral Fellow, Lamont-Doherty Earth Observatory, Columbia University 2020–2022

## EDUCATION

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**PhD** University of Massachusetts Amherst, Geosciences 02/2020  
**MSc** University of Massachusetts Amherst, Geosciences 05/2015  
**BA** Saint Olaf College, Physics 05/2013

## HONORS AND AWARDS

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**Presidential Citation**, American Geophysical Union 2020  
**UMass CNS Excellence in Diversity & Inclusion Award** 2020  
**Lamont-Doherty Postdoctoral Fellowship** 2020–2022  
**IODP Post Expedition Award** 2018  
**UMass Campus Climate Improvement Grant** 2018  
**NSF GROW Fellowship** 2016–2017  
**NSF Graduate Research Fellowship** 2014–2019  
**UMass Geosciences Hartshorn Award** 2014, 2015, 2016, 2018  
**Barry M. Goldwater Scholarship** 2012

## PUBLICATIONS

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### *Peer-reviewed*

- [14] Schaefer, J. M., Codilean, A.T., Willenbring, J.K., Lu, Z-T., **Keisling, B.A.**, Fülöp, R-H., Val, P. 2022. “Cosmogenic Nuclide Techniques.” Nature Reviews Methods Primers 2 (1): 18. <https://doi.org/10.1038/s43586-022-00096-9>.
- [13] Marschalek, J. *et al.* A Large West Antarctic Ice Sheet Explains Early Neogene Sea-Level Amplitude: Nature, v. 60, p. 450–455, <https://doi.org/10.1038/s41586-021-04148-0>.

- [12] Ali, H.N. *et al.*, 2021, An actionable anti-racism plan for geoscience organizations: Nature Communications, v. 12, p. 3794, doi:[10.1038/s41467-021-23936-w](https://doi.org/10.1038/s41467-021-23936-w).
- [11] **Keisling, B.A.**, Nielsen, L.T., Hvidberg, C.S., Nuterman, R., DeConto, R.M., 2020. Pliocene–Pleistocene megafloods as a mechanism for Greenlandic megacanyon formation: REPLY. *Geology* 48 (11), e512. <https://doi.org/10.1130/G48338Y.1>
- [10] **Keisling, B.A.**, Bryant, R.M., Golden, N.A., Stevens, L., Alexander, E., 2020. Does Our Vision of Diversity Reduce Harm and Promote Justice? *GSA Today* 30. <https://doi.org/10.1130/GSATG429GW.1>.
- [9] Gasson, E., **Keisling, B.A.**, 2020. The Antarctic Ice Sheet: A Paleoclimate Modeling Perspective. *Oceanography* 33. <https://doi.org/10.5670/oceanog.2020.208>
- [8] **Keisling, B.A.**, Nielsen, L.T., Hvidberg, C.S., Nuterman, R., DeConto, R.M., 2020. Pliocene–Pleistocene megafloods as a mechanism for Greenlandic megacanyon formation. *Geology* 48 (7), 737–741. <https://doi.org/10.1130/G47253.1>
- [7] Miller, D.R., Habicht, M.H., **Keisling, B.A.**, Castañeda, I.S., Bradley, R.S., 2018. A 900-year New England temperature reconstruction from in situ seasonally produced branched glycerol dialkyl glycerol tetraethers (brGDGTs). *Climate of the Past* 14, 1653–1667. <https://doi.org/10.5194/cp-14-1653-2018>
- [6] Buizert, C., **Keisling, B.A.**, Box, J.E., He, F., Carlson, A.E., Sinclair, G., DeConto, R.M., 2018. Greenland-Wide Seasonal Temperatures During the Last Deglaciation. *Geophysical Research Letters* 45, 1905–1914. <https://doi.org/10.1002/2017GL075601>
- [5] **Keisling, B.A.**, Castañeda, I.S., Brigham-Grette, J., 2017. Hydrological and temperature change in Arctic Siberia during the intensification of Northern Hemisphere Glaciation. *Earth and Planetary Science Letters* 457, 136–148. <https://doi.org/10.1016/j.epsl.2016.09.058>
- [4] Vallelonga, P., Christianson, K., Alley, R.B., Anandakrishnan, S., Christian, J.E.M., Dahl-Jensen, D., Gkinis, V., Holme, C., Jacobel, R.W., Karlsson, N.B., **Keisling, B.A.**, Kipfstuhl, S., Kjær, H.A., Kristensen, M.E.L., Muto, A., Peters, L.E., Popp, T., Riverman, K.L., Svensson, A.M., Tibuleac, C., Vinther, B.M., Weng, Y., Winstrup, M., 2014. Initial results from geophysical surveys and shallow coring of the Northeast Greenland Ice Stream (NEGIS). *The Cryosphere* 8, 1275–1287. <https://doi.org/10.5194/tc-8-1275-2014>
- [3] **Keisling, B.A.**, Christianson, K., Alley, R.B., Peters, L.E., Christian, J.E.M., Anandakrishnan, S., Riverman, K.L., Muto, A., Jacobel, R.W., 2014. Basal conditions and ice dynamics inferred from radar-derived internal stratigraphy of the northeast Greenland ice stream. *Annals of Glaciology* 55, 127–137. <https://doi.org/10.3189/2014AoG67A090>
- [2] Christianson, K., Peters, L.E., Alley, R.B., Anandakrishnan, S., Jacobel, R.W., Riverman, K.L., Muto, A., **Keisling, B.A.**, 2014. Dilatant till facilitates ice-stream flow in northeast

Greenland. *Earth and Planetary Science Letters* 401, 57–69.  
<https://doi.org/10.1016/j.epsl.2014.05.060>

- [1] Christianson, K., Parizek, B.R., Alley, R.B., Horgan, H.J., Jacobel, R.W., Anandakrishnan, S., **Keisling, B.A.**, Craig, B.D., Muto, A., 2013. Ice sheet grounding zone stabilization due to till compaction. *Geophysical Research Letters* 40, 5406–5411.  
<https://doi.org/10.1002/2013GL057447>

*in review*

- [x] Acosta, K.A., **Keisling, B.A.**, Winckler, G. Past as prologue: lessons from the Lamont-Doherty Earth Observatory Diversity, Equity and Inclusion Task Force.
- [x] **Keisling, B.A.**, Schaefer, J.M., DeConto, R., Briner, J.P., Young, N.E., Walcott, C., Winckler, G., Balter-Kennedy, A., Anandakrishnan, S. Greenland ice sheet vulnerability under diverse climatic warming scenarios.
- [x] Briner, J.P. *et al.* Where to GreenDrill? Site selection for cosmogenic nuclide exposure dating of the bed of the Greenland Ice Sheet.

### ***Other Publications***

- [5] Frischkorn, K. (Ed.). A conversation on building safe spaces for the LGBTQ+ community in the geosciences, 2021, *Nature Communications*, v. 12, p. 4058, doi:[10.1038/s41467-021-24020-z](https://doi.org/10.1038/s41467-021-24020-z).
- [4] Cooperdock, E.H.G., Labidi, J., Dottin III, J.W., **Keisling, B.A.**, 2020. Black Lives Matter: Promoting Diversity, Equity and Inclusion in Geochemistry. *Elements* 16, 226–227.  
<https://doi.org/10.2138/gselements.16.4.226>
- [3] **Keisling, B.A.**, R. Bryant, N. Fernandez, M. G. Arredondo, N. Golden, 2020. What's in a seminar?, *Eos*, 101, <https://doi.org/10.1029/2020EO142460>.
- [2] McKay, R.M., Santis, L.D., Kulhanek, D.K., *et al.* 2018. International Ocean Discovery Program Expedition 374 Preliminary Report 63. <https://doi.org/10.14379/iodp.pr.374.2018>
- [1] McKay, R.M., Santis, L.D., Kulhanek, D.K., Ash, J.L., Beny, F., Browne, I.M., Cortese, G., Harwood, D.M., Ishino, S., **Keisling, B.A.**, Kim, S., Kim, S., Laberg, J.S., Leckie, R.M., Müller, J., Patterson, M.O., Romans, B.W., Romero, O.E., Sangiorgi, F., Seki, O., Shevenell, A.E., Singh, S.M., Sugisaki, S.T., van de Flierdt, T., van Peer, T.E., Xiao, W., Xiong, Z., 2019. Expedition 374 summary 374, 41. <https://doi.org/10.14379/iodp.374.101.2019>

### **MEDIA COVERAGE/INTERVIEWS**

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Featured in: Ramcharitar, B., 2020. Glaciologist Benjamin Keisling on Diversity, Inclusion, and Objectivity in the Geosciences. <https://blogs.ei.columbia.edu/2020/10/14/benjamin-keisling-diversity-inclusion-objectivity/>

Featured in: Guitard, M., 2020, Amplified voices: How identity shapes our scientific experience. Geoscientist 30 (1), 10-15, <https://doi.org/10.1144/geosci2020-065>

Featured in: Kroik, J., (2020) “As the world turns.” The New Yorker. <https://www.newyorker.com/culture/culture-desk/as-the-world-turns>

Featured in: Howley, K. D. R., 2019, The layered legacy of Clyde Wahrhaftig, Eos, 100, <https://doi.org/10.1029/2019EO136549>. Published on 06 December 2019.

Interviewed in: “Greenland has a grand canyon beneath its ice, carved by ancient floods.” <https://www.atlasobscura.com/articles/greenland-ancient-grand-canyon>

Interviewed in: “How glacier-fueled floods gouged out Greenland’s hidden canyons.” <https://abcnews.go.com/Technology/glacier-fueled-floods-gouged-greenlands-hidden-canyons/story?id=70712099>

BRIDGE featured in: “US geoscience programmes drop controversial admissions test,” <https://www.nature.com/articles/d41586-020-02181-z>

## **TEACHING & MENTORING EXPERIENCE**

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Mentor, Earth Institute Intern Kwolanne Felix. Fall 2021 – Spring 2022. “Centering the perspectives of people of color in climate and environmental spaces through Columbia Climate Conversations” co-mentors: Lauren Ritchie, Kailani Acosta.

Mentor, Earth Institute Intern Lauren Ritchie. Spring 2021 – Spring 2022. “Columbia Climate Conversations at the Earth Institute.” co-mentor: Kailani Acosta.

Mentor, Earth Institute Intern Lauren Ritchie. Fall 2020. “Advancing Diversity, Equity and Inclusion at Lamont-Doherty Earth Observatory and the Earth Institute.” co-mentors: Kailani Acosta, Kuheli Dutt.

Mentor, Lamont-Doherty Earth Observatory intern Ana Ardila. Spring 2020. “The roughness of deglaciated landscape around Greenland and implications for paleo ice sheet reconstructions.” co-mentor: Tim Creyts.

Instructor of Record, CNS 191, “Adapting to a Dynamic Environment” (1 credit). UMass Amherst. 2015. Student Feedback

Guest lectures: Glacial Geology (Humboldt State University, Fall 2020), Terrestrial Paleoclimate (Columbia University, Fall 2020)

## INVITED SEMINARS

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<b>NAU SES Seminar</b> , <i>virtual</i> , host: Andrew Webb	03/2022
<b>UC Berkeley Museum of Paleontology</b> , <i>virtual</i> , host: Lisa White	09/2021
<b>CUNY Research Scholars Symposium</b> , <i>virtual</i> , Keynote Address.	07/2021
<b>Landscapes Live! Seminar Series</b> , <i>virtual</i>	05/2021
<b>EastGRIP Seminar</b> , <i>virtual</i>	05/2021
<b>University of Vermont</b> , <i>virtual</i> , host: Paul Bierman	04/2021
<b>UTIG Seminar</b> , <i>virtual</i> , host: Tim Goudge	03/2021
<b>CUNY Graduate Center</b> , <i>virtual</i> , host: Kieran Howard	03/2021
<b>Rutgers DMCS Seminar</b> , <i>virtual</i> , host: Ryan Glaubke	02/2021
<b>University of Portland</b> , <i>virtual</i> , host: Kristin Sweeney	02/2021
<b>USC</b> , <i>virtual</i> , host: Emily Cooperdock	02/2021
<b>U Alberta</b> , <i>virtual</i> , host: Libby Tunney	02/2021
<b>NASA GISS Seminar</b> , New York, NY, host: Craig Rye ( <i>virtual</i> )	03/2020
<b>Invited Talk</b> , AGU Fall Meeting 2019, session: C51A	12/2019
<b>UTIG Seminar</b> , Austin, TX, host: Sean Gulick	11/2019
<b>USF CMS Seminar</b> , St. Petersburg, FL, host: I. Browne & A. Shevenell	10/2019
<b>Department of Geology</b> , James Madison University, host: K. St. John	02/2019
<b>MG&amp;G Seminar</b> , LDEO, Palisades, NY, host: Laura Stevens	11/2018
<b>Geological Sciences Seminar</b> , Binghamton University, NY host: M. Patterson	09/2018
<b>MagellanPlus Workshop</b> , Copenhagen, DK, host: Paul Knutz	09/2018
<b>BISEPPS Seminar</b> , Harvard University, MA, host: Tamara Pico	04/2018
<b>Antarctic Research Center</b> , Wellington, NZ, host: Robert McKay	03/2018
<b>Climate &amp; Environment Lecture</b> , Brown University, RI, host: Rachel Lupien	10/2017
<b>International Quaternary Webinar</b> , UMass Amherst, MA, host: Ray Bradley	09/2017
<b>Center for Ice and Climate</b> , U. Copenhagen, DK, host: Emilie Capron	04/2017
<b>University of Aarhus</b> , Aarhus, DK, host: Nicolaj Larsen	03/2017
<b>Natural History Museum</b> , Copenhagen, DK, host: Kristian Kjeldsen	02/2017

## PROFESSIONAL ORGANIZATIONS

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American Geophysical Union (AGU), Geological Society of America (GSA), National Organization of Gay and Lesbian Scientists and Technical Professionals (NOGLSTP)

## LEADERSHIP IN JUSTICE, EQUITY, DIVERSITY AND INCLUSION

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<b>Convener</b> , Second National Conference on Justice in Geoscience	2022
<b>Co-organizer</b> , “Cultivating Leadership for Change and Justice in the Geosciences.” Lead organizer for Workshops #2 and #3.	2020–
<b>Founder</b> , Columbia Climate Conversations *co-founders: <i>Lauren Ritchie, Kailani Acosta</i>	2020–
<b>Chair*</b> , Lamont Diversity, Equity & Inclusion (LDEI) Task Force *co-chairs: <i>Kailani Acosta, Gisela Winckler</i>	2020–2021
<b>Mentor</b> , STEMSEAS	2019–

<b>Member</b> , AGU Diversity and Inclusion Advisory Committee	2019–2021
<b>gAyGU Coordinator and Organizer</b> , AGU/NOGLSTP	2018–
<b>Member</b> , Bromery Committee, UMass Amherst Geosciences	2018–2019
<b>Founding Coordinator</b> , BRiDGE at UMass Amherst	2017–2019
<b>Coordinator</b> , Guest Lecture Series, UMass Amherst Geosciences	2017–2018

***Invited Panelist***

“Journeys in Equity” LDEO Open House	<i>virtual</i> 2020
Black Lives Matter Town Hall, Geochemical Society	<i>virtual</i> 2020
Diversity and Inclusion in Earth and Space Sciences	AGU 2019

***Conference Sessions Convened/Organized***

<b>P4</b> The Next Generation of Geoscience Leaders	GSA 2020
<b>ED052</b> The Next Generation of Geoscience Leaders	AGU 2019
<b>TH</b> 100 Years of LGBTQ+ Geoscientists	AGU 2019
<b>U23</b> Towards a Century of DEI in the Geosciences	AGU 2019
<b>ED12</b> Aiming for Diversity to Strengthen the Geoscience Community	AGU 2018

**OUTREACH, PUBLIC ENGAGEMENT AND PROFESSIONAL SERVICE**

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“The Greenland Ice Sheet,” <i>The Scientist is In Series</i> , AMNH, <i>virtual</i>	02/2021
“Written in ice and mud,” Milsteen Science Series, AMNH, New York	02/2020
Early Career Scientist, Cryosphere Pavilion, COP25, Madrid, SP.	12/2019
“Animating Ice Sheets,” public lecture, Burlington, VT.	10/2019
Volunteer, Eureka!, UMass Amherst	2015–2019
STEM Ambassadors Training Program Team Coach, UMass Amherst	2014–2016
Lake El’gygytgyn Summer Teacher Training Program, UMass Amherst	2013–2015

***Conference Sessions Convened/Organized***

<b>C35</b> How Stable is the Greenland Ice Sheet?	AGU 2021
<b>PP009</b> In and Out of the Ice Age	AGU 2020
<b>PP43</b> Climate Reconstructions from the Mesozoic & Cenozoic	AGU 2018

**Reviewer; 5 peer reviewed articles and one book**

Journal of Limnology (1), Climate of the Past (1), The Cryosphere (1)  
 NSF P2C2 (1), Nature Communications (1), Columbia University Press (1)

**PRESENTATIONS**

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**>25 first-author only:**

International Meetings (e.g. EGU) **8** (3 oral, 5 poster)  
 National Meetings (e.g. AGU, GSA) **12** (9 oral, 3 poster)  
 Regional Meetings (e.g. NEGSA, small workshops) **6** (3 oral, 3 poster)  
*\*full bibliography including co-authored abstracts available upon request*