

CURRICULUM VITAE

Andrew G. Jones

University of Wisconsin-Madison
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EDUCATION

Exp. May 2026, Ph.D. Geoscience, University of Wisconsin-Madison

Advisor: Shaun Marcott

Thesis: Reconstructing Holocene glacier lengths through time to address climate model-data disagreements

Ph.D. Minor: Jazz Studies and Double Bass (in School of Music)

2021 M.S. Geoscience, University of Wisconsin-Madison

Advisor: Shaun Marcott

Thesis: Benchmarking the retreat of four North American glaciers against their Holocene length fluctuations.

2015 B.S. Geological Sciences, Boston College

Undergraduate thesis advisor: Jeremy Shakun

Minor in Theology

Thesis: Assessing the freshwater routing hypothesis for abrupt climate change using a Hudson River paleodischarge record.

AWARDS & FELLOWSHIPS

2025 Dean L. Morgridge Distinguished Graduate Fellowship, UW-Madison (1 semester of RA support)

2024 Outstanding Student Paper Award (\$500)

2023 UW-Madison Student Research Grant (\$1500)

2023 USNC/INQUA (National Academy of Sciences) Fellowship Grant (\$1000)

2023 INQUA Financial Support (€1180 or ~\$1250)

2022 GSA Graduate Student Research Grant (\$1800)

2021 Robertson Fellowship, UW-Madison (1 semester of RA support)

2021 Tyler Teaching Award, TA, UW-Madison (\$500)

2015 Vanacore Award for Musicianship, Boston College (\$2000)

PUBLICATIONS

- 2026 Orellana-Salazar, Y., Marcott, S.A., Tremblay, M.M., Moreno-Yaeger, P., Romero, M., Mixon, E.E., **Jones, A.G.**, and Barth, A.M. A ^3He -based Holocene glacial chronology from Villarrica volcano, Chile. *Quaternary Science Reviews*, <https://doi.org/10.1016/j.quascirev.2025.109707>.
- 2025 **Jones, A.G.**, Marcott, S.A., Lifton, N., Gorin, A.L., Shakun, J.D., Zimmerman, S.R.H., Hidy, A.J., Stock, G., Kennedy, T.M., Goehring, B.M., and Caffee, M. W. Glaciers in California's Sierra Nevada are likely disappearing for the first time in the Holocene. *Science Advances*, <https://doi.org/10.1126/sciadv.adx9442>.
- 2024 Gorin, A.L., Shakun, J.D., **Jones, A.G.**, Kennedy, T.M., Marcott, S.A., Goehring, B.M., Bromley, G.R., Jomelli, V., Mateo, E. I., Mark, B. G., Rodbell, D. T., Gilbert, A., and Caffee, M. W. Recent tropical Andean glacier retreat unprecedented in the Holocene. *Science*, <https://doi.org/10.1126/science.adg7546>.
- 2024 Romero, M., Penprase, S.B., Van Wyk de Vries, M.S., Wickert, A.D., **Jones, A.G.**, Marcott, S.A., Strelin, J.A., Martini, M.A., Rittenour, T.M., Brignone, G., Shapley, M.D., Ito, E., MacGregor, K.R., and Caffee, M.W, Late Quaternary glacial maxima in Southern Patagonia: insights from the Lago Argentino glacier lobe. *Climate of the Past*, <https://doi.org/10.5194/cp-20-1861-2024>.
- 2023 **Jones, A.G.**, Marcott, S.A., Gorin, A.L., Kennedy, T.M., Shakun, J.D., Goehring, B.M., Menounos, B., Clark, D.H., Romero, M., and Caffee, M.W. Four North American glaciers advanced past their modern positions thousands of years apart in the Holocene. *The Cryosphere*, 1–24, <https://doi.org/10.5194/egusphere-2023-859>.

PUBLICATIONS IN REVIEW

- 2026 Romero, M., Van Wyk de Vries, M., Fedotova, A., Ito, E., Shapley, M.D., Beatrice Magnani, M., Wickert, A.D., **Jones, A.G.**, Marcott, S.A., Strelin, J.A., Brignone, G., Penprase, S.B., and Caffee, M.W. A revised Holocene history of Glaciar Upsala, Southern Patagonia using seismic imagery, lake sediment cores, and moraine ages. In review at *Quaternary Science Reviews*.
- 2026 Hu, K., Neely, A., Ferrier, K.L., DiBiase, R., Rossi, M., **Jones, A.G.**, and Marcott, S.A. Testing topographic metrics for drainage divide stability at San Jacinto Mountain, California. In review at *Journal of Geophysical Research: Earth Surface*.

PUBLICATIONS IN PREP

- 2026 **Jones, A.G.***, Kennedy, T.M.*, Goehring, B.M., Gorin, A.L., Marcott, S.A., Shakun, J.D., Hein, A., Kelly, A.M., Romero, M., Bromley, G.R., Van Wyck de Vries, M., Wickert, A., and Caffee,

M.C. Benchmarking the retreat of three Patagonian glaciers against their Holocene positions with *in situ* ^{14}C - ^{10}Be dating. In prep. (*These authors contributed equally.)

- 2026 Brooks, J.P.[†], **Jones, A.G.**[†], Marcott S.A., Zoet L.K., Lifton N.A., Gorin A.L., Helanow C., Shakun J.D., and Caffee, M.A. Glacial erosion rates of alpine glaciers are low and spatially variable. In prep. (†Corresponding authors.)

SELECTED PRESENTATIONS

- 2025 **Jones, A.G** and Parrish, E.C. Frozen assets: glacier death and the value of arts in science. *Very Early Career Series, UW-Madison Geoscience Graduate Students Association*. Invited Talk.
- 2024 **Jones, A.G.**, Marcott, S.A., Lifton, N.L., Gorin, A.L., Stock, G., Shakun, J.D., Zimmerman, S. R.H., Hidy, A.J., Clark, D.H., Kennedy, T.M., Goehring, B. M., Romero, M., Menounos, B., Cary, W., and Caffee, M.W. Holocene glacier minima in western North America. *Western US Paleoglaciers Working Group*. Invited talk.
- 2024 **Jones, A.G.**, Brooks, J. P., Marcott, S.A., Lifton, N.A., Gorin, A.L., and Caffee M.W. A record of glacier length through the Holocene for a glacier in the Juneau Icefield, Alaska. *Arctic Workshop*. Talk.
- 2023 **Jones, A.G**, Brooks, J. P., Marcott, S. A., Lifton, N., Gorin, A. L., and Caffee M. W. A record of glacier length through the Holocene for a glacier in the Juneau Icefield, Alaska. *American Geophysical Union*. Talk.
- 2023 **Jones, A. G.**, Marcott, S.A., Lifton, N., Zimmerman, S. R.H., Hidy, A.J., Clark, D.H., Gorin, A.L., Stock, G., Shakun, J.D., Goehring, B.M., Cary, W., and Caffee, M.W. Glaciers in the Sierra Nevada, California are disappearing for the first time of the Holocene. *International Quaternary Association*. Talk.
- 2022 **Jones, A.G.**, Marcott, S., Gorin, A., Kennedy, T., Goehring, B., Shakun, J., Bromley, G., Clark, D., Hein, A., Jomelli, V., Ian Mateo, E., Mark, B., Menounos, B., Rodbell, D., Van Wyk de Vries, M., and Wickert, A. Holocene glacier length variations along the American Cordilleras from paired ^{14}C - ^{10}Be measurements. *American Quaternary Association*. Talk.
- 2021 **Jones, A.G.**, Parrish, E., Barshi, N., and Schwaderer, C. “Geology undergirds me”: using art to deepen connection to geoscience. *Earth Educators’ Rendezvous via NAGT & SERC (National Association of Geoscience Teachers & Science Education Resource Center at Carleton College)*. Talk.
- 2021 **Jones, A.G.** and Parrish, E.C. Solid Rock. Video submission to *Digital Salon*, an online collection of student media projects at University of Wisconsin-Madison. Video in collaboration with Tadada Scientific Lab. <https://designlab.wisc.edu/solid-rock-by-andrew-jones-and-ethan-parrish/>

TEACHING EXPERIENCE

- Spring 2023 TA, Geosci 420: Glacial Geology, UW-Madison
- Fall 2022 TA, Geosci 335: Climatic Environments of the Past, UW-Madison
- Spring 2021 TA, Geosci 100: Introduction to Geology, UW-Madison
- Fall 2020 TA, Geosci 335: Climatic Environments of the Past, UW-Madison
- Spring 2020 TA, Geosci 100: Introduction to Geology, UW-Madison
- Fall 2019 TA, Geosci 100: Introduction to Geology, UW-Madison
- 2014–2015 Earth Science Tutor, Boston College Learning Resources for Student Athletes
Led group sessions of ~5 student athletes with diverse educational backgrounds in introductory geology courses

OUTREACH & INTERNATIONAL COLLABORATION

Use of music, film, and art to broaden who can be—and who feels inspired to be—an Earth scientist. Includes guest lectures and performances to intro geology class as part of the TaDaDa Scientific Lab led by Dr. Stephen Meyers (<https://www.tadada.net/>).

- *Death of a Glacier*: A means of processing and lamenting the inescapably concerning data about our warming planet that geoscientists deal with every day. This film offers an alternative way to hear, see, and feel the reality of climate change. (<https://whisperingrivermedia.com/deathofaglacier>)
- *Solid Rock*: A short composition that concludes with a conversation about the role of inspiration for scientists (<https://www.youtube.com/watch?v=DCQGhqmYsPo>)
- Fieldwork and co-authorship with Dr. Álvaro Soruco Sologuren from the Instituto de Investigaciones Geológicas y del Medio Ambiente at the Universidad Mayor de San Andrés in La Paz, Bolivia
- Conversations with Indigenous stakeholders in Bolivia to be released as part of the Death of a Glacier film series

MEDIA APPEARANCES

Interviewed by *The Los Angeles Times*, the *San Francisco Chronicle*, *KQED* (Bay Area NPR), *KVPR* (Central Valley, California NPR), *Politico*, and the *AARP* (American Association of Retired Persons). Research featured in *The Guardian*, *The Washington Post*, and a UW-Madison press release.

- *LA Times*: <https://www.latimes.com/environment/story/2025-10-01/californias-glaciers-vanishing>
- *San Francisco Chronicle*: <https://www.sfchronicle.com/climate/article/sierra-glaciers-21076843.php>
- *KQED*: <https://www.kqed.org/science/1998695/californias-ancient-glaciers-are-melting-away-for-the-first-time-in-human-history>

- *KVPR*: <https://www.kvpr.org/podcast/central-valley-daily/2025-10-29/oct-29-glaciers-in-the-sierra-nevada-could-disappear-in-the-next-75-years>
- *Politico*: <https://www.politico.com/newsletters/california-climate>
- *AARP*: <https://www.aarp.org/travel/vacation-ideas/outdoors/info-2024/visiting-glaciers.html>
- *The Guardian*: <https://www.theguardian.com/environment/2025/oct/07/california-sierra-nevada-glaciers>
- *Washington Post*: <https://www.washingtonpost.com/science/2024/08/11/andes-glacier-melting-climate/>
- University of Wisconsin-Madison Press Release: <https://news.wisc.edu/retreat-of-tropical-glaciers-foreshadows-changing-climates-effect-on-the-global-ice/>

DEPARTMENTAL SERVICE

- 2021–2022 Recruitment & Welcome Coordinator
Organize graduate student recruitment; designed and led the first digital graduate recruitment in collaboration with Graduate Studies Chair and Graduate Coordinator.
- 2021–2022 Geoscience Graduate Student Association Executive Board

LAB EXPERIENCE

- 2019–Present Lab Manager, Marcott Cosmogenic Nuclide Lab, University of Wisconsin-Madison
Extracted Be for AMS measurement; performed anion & cation exchange column chromatography; separated minerals; crushed rock; ordered supplies and maintained inventory; trained all visitors, undergraduates, and new graduate students; made methodological improvements; operated ICP-OES for quartz purity analysis.
- 2014–2016 Shakun Paleoceanography Lab, Boston College
Sieved ocean sediment cores for foraminifera and ice-rafted debris; picked foraminifera for Mg/Ca and $\delta^{18}\text{O}$ analyses.

FIELD EXPERIENCE

- 2024 Trip leader (grad students only) of sampling proglacial bedrock in Bolivia. 2 weeks.
- 2024 Erratic boulder & bedrock sampling, British Columbia, Canada.
- 2023, 2021 Trip leader (grad students only) of sampling proglacial bedrock at the Lyell & Maclure glaciers in Yosemite National Park, USA. 1 week each.
- 2022 PaleoCAMP 2-week summer school for graduate students in paleoclimatology
- 2022 Proglacial bedrock sampling & rock coring (grad students only) in Juneau Icefield, AK.
- 2019, 2020 Proglacial bedrock sampling, Mammoth Glacier, Wind River Range, WY.

2014

Maerewhenua field course, University of Otago, New Zealand.

PEER REVIEW

Nature Communications

Geophysical Research Letters

Climate of the Past

Scientific Reports