

## Aidan W. Burdick

---

CONTACT INFORMATION	Department of Earth and Planetary Sciences Northwestern University Evanston, IL aidanburdick2026@u.northwestern.edu
EDUCATION	<p><b>Ph.D. Candidate</b>, Earth and Planetary Sciences, <i>Northwestern University</i> 2021–present Committee: <b>Dr. Yarrow Axford (Advisor)</b>, Dr. B. Brandon Curry, Dr. Bradley B. Sageman</p> <p><b>M.S.</b> Geology, <i>Western Washington University</i> 2022 Thesis Title: <i>Reconstructing deglacial and Holocene climatic and environmental change in the Snowy Mountains of southeast Australia</i> Committee: <b>Dr. Doug Clark (Advisor)</b>, Dr. Allison M. Pfeiffer, Dr. Brady Z. Foreman</p> <p><b>B.A. with honors</b> in Geology, <i>Carleton College</i> 2018 Thesis Title: <i>Paleoecological phytolith investigation of anthropogenic vegetation change in Umstead State Park, North Carolina</i> Advisors: Dr. Ethan Hyland (<i>N.C. State University</i>), Dr. Dan Maxbauer</p>
TEACHING EXPERIENCE	<p><b>Teaching Assistant</b></p> <p>Earth Systems Revealed, <i>Northwestern University</i> 2024</p> <p>Contemporary Energy and Climate Change, <i>Northwestern University</i> 2022</p> <p>Honors Geology Colloquium, <i>Western Washington University</i> 2021</p> <p>Physical Geology, <i>Western Washington University</i> 2021</p> <p>Geomorphology, <i>Western Washington University</i> (2 quarters) 2020</p> <p>Introduction to Geology, <i>Western Washington University</i> (4 quarters) 2019/20/21</p>
CONFERENCE PRESENTATIONS	<ol style="list-style-type: none"><li>1. Mickelson, E., Clark, D.H., <b>Burdick, A.W.</b>, Culhane, N., Mackenzie, L., McCallum, A., Shulmeister, J., Clark, J. (2023). Deglacial and Holocene environmental change recorded in lake sediments from the Snowy Mountains, Kosciuszko National Park, southeastern Australia. Geological Society of America Cordilleran Section Meeting, Reno, Nevada.</li><li>2. Culhane, N., Clark, D.H., Mickelson, E., <b>Burdick, A.W.</b>, Mackenzie, L., McCallum, A., Shulmeister, J., Clark, J. (2023). Late Holocene environmental change from high-resolution lake sediments in the Snowy Mountains, Kosciuszko National Park, southeastern Australia. Geological Society of America Cordilleran Section Meeting, Reno, Nevada.</li><li>3. Clark, D.H., <b>Burdick, A.W.</b>, Mickelson, E., Culhane, N., Mackenzie, L., McCallum, A., Clark, J., Shulmeister, J. (2023). Post-glacial environmental change in the Snowy Mountains, Australia, recorded in a suite of high-resolution lake sediment cores. XXI INQUA Congress, Rome, Italy.</li><li>4. Thomas, A.M., Davis, T.C., Alonzo, B., Bausch, H., <b>Burdick, A.W.</b>, Camilleri, S., Puleo, P., Selensky, M., Wan, C., Woods, S.E., van der Lee, S. (2022). NU-Geopaths: Engaging Mentees and Mentors in an Inclusive Internship Experience. American Geophysical Union Fall Meeting, Chicago, Illinois.</li><li>5. Clark, D.H., <b>Burdick, A.W.</b>, Mickelson, E., Culhane, N. (2022). Testing post-glacial environmental change in the Snowy Mountains, Australia, with a suite of new lake sediment cores. Geological Society of America Annual Meeting, Denver, Colorado.</li></ol>
PROFESSIONAL DEVELOPMENT	<p><b>paleoCAMP</b> 2023</p> <p>Participant in a two-week summer school for graduate students in paleoclimate at the Sierra Nevada Aquatic Research Laboratory. Topics include proxy system modeling, model-proxy data comparison, isotope-enabled general circulation models, and data assimilation.</p>

OUTREACH	<b>NU-Geopaths</b> I worked as a mentor for a three-week internship program for high school students aimed at encouraging a diverse group of students to consider geosciences as a college major and career path. I also worked as an organizer for the 2023 program and attended recruitment events at local Chicago high schools.	2022/23
GRANTS AND FELLOWSHIPS	Graduate Student Research Grant, <i>Geological Society of America</i> (\$2,500) Nasaw Family Fund Award, <i>ISEN, Northwestern University</i> (\$3,500) Geology Department Advance for Research, <i>Western Washington University</i> (\$800) Rahm Memorial Endowment, <i>Western Washington University</i> (\$632) Visting Graduate Student Program, <i>National Lacustrine Core Facility</i> (\$1,000) Kolenkow-Reitz Fellowship for undergraduate research, <i>Carleton College</i> (\$2,000)	2022 2022 2020 2020 2020 2017
AWARDS	Distinction in Senior Intergrative Exercise, <i>Carleton College</i> Honors in the Geology Major, <i>Carleton College</i>	2018 2018
FIELD EXPERIENCE	<b>New England lake coring, Northwestern QSL</b> Assisting in a large-scale coring effort that will enable a study of human-climate interactions in New England during the Pleistocene-Holocene transition. Fieldwork includes winter and summer lake coring using the Livingstone coring system.	2023–present
	<b>Illinois lake coring, Northwestern QSL</b> Leading an effort to extract sediment cores from Crystal and Hastings Lakes in northeastern Illinois for PhD research. Coring has involved Nesje and Unicore coring systems, most recently including a successful surface sediment core from Crystal Lake. Field work also includes water isotope sampling and surface sediment collection.	2022–present
	<b>Northwestern QSL South Greenland field season</b> Participated in a seventeen-day field season that involved collecting lake sediment cores using Nesje and Unicore coring systems at two lakes in South Greenland, as well as collecting water samples, surface sediment samples, and plant samples for modern proxy calibration work.	2022
PROFESSIONAL MEMBERSHIPS	American Geophysical Union American Quaternary Association Geological Society of America	Since 2022 Since 2022 Since 2019