

Alia J. Lesnek

alia.lesnek@qc.cuny.edu

(718) 997-3335

Research website: www.alialesnek.com

Queens College, CUNY
School of Earth and Environmental Sciences
Flushing, NY 11367

Twitter: @alialesnek

EDUCATION

- 2014-2019 **University at Buffalo, Buffalo, NY**
Ph.D. in Geology
- 2010-2013 **University of Florida, Gainesville, FL**
B.S. in Geological Sciences

PROFESSIONAL APPOINTMENTS

- 2021-present **Queens College and The Graduate Center, CUNY, New York, NY**
Assistant Professor
- 2019-2021 **University of New Hampshire, Durham, NH**
Postdoctoral Research Associate
- 2014-2019 **University at Buffalo, Buffalo, NY**
Graduate Research Assistant

RESEARCH INTERESTS

Quaternary surficial geology

- Glacier and ice sheet response to abrupt climate change
- Mapping Quaternary surficial deposits using field techniques and remote sensing
- Multi-proxy environmental reconstructions (e.g., lake sediments, animal fossils)
- Impacts of paleoenvironmental change on ancient human migration and settlement patterns
- Frequency of natural hazards such as landslides, earthquakes, and volcanic eruptions

Geochronology

- Improving cosmogenic nuclide geochemistry laboratory methods
- Cosmogenic nuclide production rate calibrations

PUBLICATIONS

These publications are available on my [research website](#) and [Google Scholar](#) profile.

Published

- (13) Walcott, C. K., Briner, J. P., Baichtal, J. F., **Lesnek, A. J.**, and Licciardi, J. M. (2022). Cosmogenic ages indicate no MIS 2 refugia in the Alexander Archipelago, Alaska: *Geochronology*, v. 4, no. 1, p. 191–211.
- (12) Baichtal, J.F., **Lesnek, A.J.**, Carlson, R.J., Schmuck, N., Smith, J.L., Landwehr, D.J., and Briner, J.P. (2021). Late Pleistocene and early Holocene sea-level history and glacial retreat interpreted from shell-bearing marine deposits of Southeastern Alaska: *Geosphere*, v. 17, no. 6, p. 1590–1615.
- (11) Young, N.E., Briner, J.P., Miller, G.H., **Lesnek, A.J.**, Crump, S.E., Pendleton, S.L., Schwartz, R., Schaefer, J.M. (2021). Pulsebeat of early Holocene glaciation in Baffin Bay from high-resolution beryllium-10 moraine chronologies: *Quaternary Science Reviews*, v. 270, 107179.
- (10) Young, N.E., **Lesnek, A.J.**, Cuzzone, J.K., Briner, J.P., Badgeley, J.A., Balter-Kennedy, A., Graham, B.L., Cluett, A., Lamp, J.L., Schwartz, R., Tuna, T., Bard, E., Caffee, M.W., Zimmerman, S.R.H., and Schaefer, J.M. (2021). Cosmogenic isotope measurements from recently deglaciated bedrock as a new tool to decipher changes in Greenland Ice Sheet size: *Climate of the Past*, v. 17, p. 419-450.
- (9) Briner, J.P., Cuzzone, J.K., Badgeley, J.A., Young, N.E., Steig, E.J., Morlighem, M., Schlegel, N.J., Hakim, G.J., Schaefer, J., Johnson, J.V., **Lesnek, A.J.**, Thomas, E.K., Allan, E., Bennike, O., Cluett, A.A., Csatho, B., de Vernal, A., Downs, J., Larour, E., and Nowicki, S. (2020). Greenland Ice Sheet mass loss rate will exceed Holocene values this century: *Nature*, v. 586, p. 70-74.
- (8) **Lesnek A.J.**, Briner, J.P., Baichtal, J.F., Lyles, A.S. (2020). New constraints on the last deglaciation of the Cordilleran Ice Sheet in coastal Southeast Alaska: *Quaternary Research*, v. 96, p. 140-160.
- (7) Downs, J.Z., Johnson, J.V., Briner, J.P., Young N.E., **Lesnek, A.J.**, Cuzzone, J.K. (2020). West Greenland Ice Sheet retreat history reveals elevated precipitation during the Holocene thermal maximum: *The Cryosphere*, v. 14, p. 1121-1137.
- (6) Young, N.E., Briner, J.P., Schaefer, J.M., Miller, G.H., **Lesnek, A.J.**, Crump, S.E., Thomas, E.K., Pendleton, S.L., Cuzzone, J.K., Lamp, J., Zimmerman, S., and Caffee, M. (2020). Reply to Carlson (2020) comment on "Deglaciation of the Greenland and Laurentide ice sheets interrupted by glacier advance during abrupt coolings", *Quaternary Science Reviews*, 106329.
- (5) **Lesnek, A.J.**, Briner, J.P., Young, N.E., Cuzzone, J.K. (2020). Maximum Southwest Greenland Ice Sheet recession in the Early Holocene: *Geophysical Research Letters*, v. 47, no. 1, e2019GL083164.
- (4) Young, N.E., Briner, J.P., Miller, G.H., **Lesnek, A.J.**, Crump, S.E., Thomas, E.K., Pendleton, S.L., Cuzzone, J.K., Lamp, J., Zimmerman, S., Caffee, M., Schaefer, J.M. (2020). Deglaciation of the Greenland and Laurentide ice sheets interrupted by glacier advance during abrupt coolings: *Quaternary Science Reviews*, v. 229, 106091.
- (3) **Lesnek, A.J.**, Briner, J.P., Lindqvist, C., Baichtal, J.F., Heaton, T.H. (2018). Deglaciation of the Pacific coastal corridor directly preceded the human colonization of the Americas: *Science Advances*, v. 4, no. 5, eaar5040.
- (2) **Lesnek, A.J.**, Briner, J.P. (2018). Response of a land-terminating sector of the western Greenland Ice Sheet to early Holocene climate change: Evidence from ¹⁰Be dating in the Søndre Isortoq region: *Quaternary Science Reviews*, v. 180, p. 145-156.

- (1) Briner, J.P., Tulenko J.P., Kaufman, D.S., Young N.E., Baichtal, J.F., **Lesnek, A.** (2017). The Last Deglaciation of Alaska: *Cuadernos de Investigación Geográfica*, v. 43, p. 429-448.

Submitted

Darvill, C.M., Menounos, B., Goehring, B.M., **Lesnek, A.J.**, Cordilleran Ice Sheet stability during the Last Deglaciation. Submitted to *Geophysical Research Letters*, August 2021.

Price, B.N., Stansell, N.D., Fernández, A., Licciardi, J.M., **Lesnek, A.J.**, Sorensen, M.K., Castillo, E.J., Muñoz, A., Shutkin, T., Ciocca, I., and Galilea, I., Chlorine-36 surface exposure dating of Late-Holocene moraines and glacial mass balance modeling, Monte Sierra Nevada, South-Central Chilean Andes (38°S). Submitted to *Frontiers in Earth Science*, December 2021.

FUNDING

Total awarded to date: \$37,374

pending	Reconstructing Alaskan glacier retreat to assess connections between early human migration corridors; National Geographic Society. \$20,000
2022	Dating Quaternary slope failures in Grand Teton National Park, Wyoming using cosmogenic nuclides; PSC-CUNY Research Award Program. \$3,500
2020	Quantifying rates of Quaternary landscape evolution in Grand Teton National Park using <i>in situ</i> cosmogenic ¹⁰ Be, ¹⁴ C, and ³⁶ Cl dating; University of Wyoming-National Park Service Research Station Small Grants Program. \$5,000
2018	College of Arts and Sciences Dissertation Fellowship; University at Buffalo. \$6,000
2017	Doctoral Dissertation Research: Late Pleistocene Glaciation in Southeastern Alaska: Assessing the Sensitivity of a Marine-terminating Ice Sheet to Changing Environmental Conditions (BCS-1657065); National Science Foundation. \$15,999
2017	Visiting Graduate Student Travel Grant; National Lacustrine Core Facility. \$1,000
2016	Pegrum Professional Development Award; University at Buffalo. \$500
2016	Graduate Student Conference Travel Grant; University at Buffalo. \$500
2015	Graduate Student Research Grant; Geological Society of America. \$1,875
2012	University Scholar Award; University of Florida. \$2,000

HONORS AND AWARDS

2019	College of Arts and Sciences Research Poster Winner, University at Buffalo
2018	Solène Pouget Prize for Scientific Contributions to Society, University at Buffalo

INVITED SEMINARS

- 2022 Searching for Ice Age refugia along North America's Pacific coast. Doctoral Program in Earth and Environmental Sciences Colloquium Series, CUNY Graduate Center, April 28, New York, NY.
- 2022 Glacial Geology and Geochronology of Southeast Alaska. Southeast Alaska Discovery Center: Friday Night Insight, March 25, Online.
- 2021 Greenland Ice Sheet mass loss will exceed Holocene values this century. Baruch College Climate Scholars seminar, September 20, Online.
- 2021 A land of ice and fire: Late Quaternary deglaciation, sea level change, and volcanism on America's Northwest Pacific coast. Queens College School of Earth and Environmental Sciences Colloquium, February 17, Online.
- 2020 A land of ice and fire: Late Quaternary deglaciation, sea level change, and volcanism on America's Northwest Pacific coast. University College Dublin (Ireland) seminar series, November 11, Online.
- 2020 Unraveling the Last Deglaciation: Case Studies from Greenland and Alaska. Queens College School of Earth and Environmental Sciences Colloquium, March 12, Flushing, NY.
- 2018 Deglaciation of the North Pacific coast and the peopling of the Americas. University New Hampshire Department of Earth Sciences, November 30, Durham, NH.
- 2018 The last deglaciation of the Greenland and Cordilleran ice sheets: Reconstructions from Southwest Greenland and Southeast Alaska. University of Maine Climate Change Institute seminar, October 25, Orono, ME.
- 2018 Deglaciation of the Pacific coastal corridor: Causes, consequences, and remaining questions. International Quaternary Webinar (hosted by University of Massachusetts at Amherst), September 19, Online.
- 2017 Holocene fluctuations of the western Greenland Ice Sheet. National Lacustrine Core Facility (LacCore), October 10, Minneapolis, MN.

CONFERENCE PRESENTATIONS

**denotes advisee author*

- 2021 **Lesnek, A.J.**, Licciardi, J.M., Briner, J.P., Baichtal, J.F., Walcott, C.K., Volcanism, glaciation, and sea-level change at the Mount Edgecumbe Volcanic Field, Alaska: Implications for human occupation of the Northwest Pacific coast. Poster presented at 2021 AGU Fall Meeting.
- 2021 Walcott, C.K., Briner, J.P., Baichtal, J.F., **Lesnek, A.J.**, Licciardi, J.M., Of humans and glaciers – a glacial chronology from the coastal Pacific migration route. Oral presentation at 2021 AGU Fall Meeting.

- 2021 Ward, D., Licciardi, J.M., Goehring, B., **Lesnek, A.J.**, Transdimensional Bayesian inversion of multi-isotope cosmogenic nuclide measurements. Oral presentation at 2021 AGU Fall Meeting.
- 2021 Price, B.N., Fernández, A., Stansell, N.D., Licciardi, J.M., **Lesnek, A.J.**, Sorensen, M.K., Castillo, E.J., Muñoz, A., Ciocca, I., Mark, B.G., Shutkin, T., Chlorine-36 Surface Exposure Dating and Glacial Sensitivity Analysis of late-Holocene Moraines, South-Central Chilean Andes (38°S). Poster presented at 2021 AGU Fall Meeting.
- 2021 **Lesnek, A.J.**, Licciardi, J.M., Briner, J.P., Baichtal, J.F., Walcott, C.K., Exposing the history of volcanism and sea-level changes at the Mount Edgecumbe Volcanic Field in Southeast Alaska using cosmogenic nuclides. Oral presentation at 50th Annual International Arctic Workshop, April 15, Online.
- 2020 Thomas, E.K., Cuzzzone, J.K., Briner, J.P., Badgeley, J.A., Cluett, A.A., Downs, J., **Lesnek, A.J.**, Young, N.E., Allan, E., Bennike, O., Csatho, B., de Vernal, A., Hakim, G.J., Johnson, J.V., Larour, E., Morlighem, M., Nowicki, S., Schaefer, J., Schlegel, N.J., Steig, E.J., Turrin, M., Precipitation modulates Greenland Ice Sheet size during the Holocene. Oral presentation at 2020 AGU Fall Meeting, December 15, Online.
- 2020 **Lesnek, A.J.**, Larsen, D.J., Licciardi, J.M., A multi-proxy reconstruction of Pleistocene-Holocene denudation rates in the eastern Teton Range, Wyoming. Poster presented at 2020 AGU Fall Meeting, December 10, Online.
- 2020 **Lesnek, A.J.**, Licciardi, J.M., Thackray, G.D., Constraining Late Quaternary offset rates along the Teton Fault, Wyoming, using cosmogenic ¹⁰Be dating of alluvial landforms. Poster presented at 2020 GSA Annual Meeting, October 28, Online.
- 2019 Briner, J.P., Cuzzzone, J.K., Badgeley, J.A., Allan, E., Bennike, O., Cluett, A.A., Csatho, B., Corcoran, M.C., de Vernal, A., Downs, J., Hakim, G.J., Johnson, J.V., Larour, E., **Lesnek, A.J.**, Morlighem, M., Nowicki, S., Schaefer, J., Steig, E.J., Thomas, E.K., Young, N.E., Greenland Ice Sheet mass loss rate will exceed Holocene values this century. Oral presentation at 2019 AGU Fall meeting, San Francisco, CA.
- 2019 **Lesnek, A.J.**, Briner, J.P., Young, N.E., Cuzzzone J.K., Maximum Greenland Ice Sheet recession in the Early Holocene. Poster presented at 2019 AGU Fall Meeting, December 10, San Francisco, CA.
- 2019 Young, N.E., Briner, J.P., **Lesnek, A.J.**, Balter, A., Cuzzzone, J.K., Graham, B.L., Schaefer, J., Constraining periods of reduced Greenland Ice Sheet extent using in situ ¹⁰Be-¹⁴C-²⁶Al measurements in recently exposed bedrock surfaces. Poster presented at 2019 AGU Fall Meeting, December 10, San Francisco, CA.
- 2019 Cuzzzone, J.K., Morlighem, M., Schlegel, N.J., Larour, E., Briner, J.P., Young, N.E., **Lesnek, A.J.**, Badgeley, J.A., Steig, E.J., Hakim, G.J., Investigating the role climate reconstructions play in the simulated retreat history of southwestern Greenland during the Holocene using the Ice Sheet System Model (ISSM), Poster presented at 2019 AGU Fall Meeting, December 10, San Francisco, CA.

- 2018 Briner, J.P., Young, N.E., Allan, E., Badgeley, J.A., Bennike, O., Cluett, A.A., Csatho, B., Corcoran, M.C., Cuzzone, J.K., de Vernal, A., Downs, J., Hakim, G.J., Johnson, J.V., Larour, E., **Lesnek, A.J.**, Morlighem, M., Schaefer, J., Steig, E.J., Thomas, E.K., Turrin, M., The Snow on Ice Project: A data-model collaboration for assessing Greenland Ice Sheet change during periods of Arctic warmth. Poster presented at 2018 AGU Fall Meeting, Washington, D.C.
- 2018 Young, N.E., Miller, G.H., Briner, J.P., Schaefer, J.M., Crump, S.E., **Lesnek, A.J.**, Pendleton, S.L., Ice-sheet sensitivity to abrupt climate change. Poster presented at 2018 AGU Fall Meeting, Washington, D.C.
- 2018 Nichols, S.* , Briner, J.P., **Lesnek, A.J.**, Reconstructing Holocene ice sheet margin history near Kangiata Nunaata Sermia, Southwest Greenland, using radiocarbon dated proglacial-threshold lake sediments. Poster presented at 2018 AGU Fall Meeting, Washington, D.C.
- 2018 **Lesnek, A.J.**, Briner, J.P., Baichtal, J.F., Rapid Cordilleran Ice Sheet retreat during Heinrich Stadial 1. Oral presentation at 2018 AGU Fall Meeting, December 10, Washington, D.C.
- 2018 **Lesnek, A.J.**, Briner, J.P., Young N.E., Synthesizing Holocene Greenland Ice Sheet chronology for data-model comparison. Poster presented at Joint CANQUA/AMQUA Biennial Meeting, August 10, Ottawa, ON.
- 2018 Sbarra, C.* , Briner, J.P., **Lesnek, A.J.**, Baichtal, J.F., Glacial erosion rate for the Cordilleran Ice Sheet in Southeast Alaska using cosmogenic ¹⁰Be concentrations in bedrock and perched boulders. Poster presented at Northeastern Section GSA Meeting, 19 March, Burlington, VT.
- 2018 **Lesnek, A.J.**, Briner, J.P., Young, N.E., Cuzzone, J.K., Downs, J.Z., Johnson, J.V., Holocene Greenland Ice Sheet extent for data-model comparison. Oral presentation at 48th Annual International Arctic Workshop, April 5, Boulder, CO.
- 2017 **Lesnek, A.J.**, Briner, J.P., Baichtal, J.F., Sbarra, C.* , Latest Pleistocene deglaciation of the Cordilleran Ice Sheet in southeastern Alaska. Poster presented at 2017 GSA Annual Meeting, October 23, Seattle, WA.
- 2017 Young, N.E., Miller, G.H., Briner, J.P., Schaefer, J.M., Crump, S.E., **Lesnek, A.J.**, Pendleton, S.L., Early Holocene evolution of the Laurentide and Greenland Ice Sheets. Oral presentation at 2017 GSA Annual Meeting, October 22, Seattle, WA.
- 2017 **Lesnek, A.J.**, Briner, J.P., Roop, H.A., Cluett, A.A., Thomas, E.K., Young, N.E., Constraints on western Greenland Ice Sheet extent during the middle Holocene from proglacial threshold lakes. Poster presented at 47th Annual International Arctic Workshop, March 23, Buffalo, NY.
- 2016 Schweinsberg, A.D., Briner, J.P., Miller, G.H., **Lesnek, A.J.**, Lifton, N.A., Clements, S., Holocene Mountain Glacier Variability in the Sukkertoppen Region, Western Greenland. Poster presented at 2016 AGU Fall Meeting, December 12, San Francisco, CA.

- 2016 **Lesnek, A.J.**, Briner, J.P., It takes two: New constraints on Cordilleran Ice Sheet extent and retreat from ^{10}Be and radiocarbon dating. Oral presentation at 2016 AGU Fall Meeting, December 11, San Francisco, CA.
- 2016 **Lesnek, A.J.**, Briner, J.P., It takes two: Using ^{10}Be and radiocarbon dating to decipher the glacial history of southeastern Alaska. Oral presentation at 46th Annual International Arctic Workshop, April 2, Boulder, CO.
- 2015 **Lesnek, A.J.**, Briner, J.P., Schweinsberg, A.D., Lifton, N.A., Toward a master chronology for western Greenland's Fjord Stade Moraines: New ^{10}Be ages from the Søndre Isortoq region. Oral presentation at 2015 AGU Fall Meeting, December 17, San Francisco, CA.
- 2015 **Lesnek, A.J.**, Briner, J.P., Schweinsberg, A.D., Lifton, N.A., A preliminary ^{10}Be chronology of the Fjord Stade Moraines in the Søndre Isortoq region, western Greenland. Poster presented at 2015 Northeastern Section GSA Meeting, March 23, Bretton Woods, NH.
- 2013 **Lesnek, A.**, Martin, J.B., Deuerling, K., Hydrochemical Evidence for Differential Weathering in Proglacial and Deglaciaded Streams in Western Greenland. Poster presented at University of Florida Undergraduate Research Symposium, March 23, Gainesville, FL.

TEACHING

Queens College

GEOL 101 Physical Geology

GEOL 208 Sedimentology and Landscape Evolution

GEOL 7991 Colloquium

University of New Hampshire

ESCI 402 Earth History

ESCI 680/780 Paleoceanography

TECH 411 Innovation Scholars I

TECH 412 Innovation Scholars II

University at Buffalo

GLY 445/545 Glacial Geology

GLY 465/565 Environmental Remote Sensing (TA)

GLY 407 Geology Field Camp (TA)

GLY 101 Natural Hazards (TA)

GLY 102 Climate Change (TA)

STUDENT MENTORING

Julia Brazo (MS thesis committee, University of New Hampshire)

Calen Rubin (MS thesis committee, University of New Hampshire)

SERVICE AND OUTREACH

Reviewer: *Boreas, Geology, The Holocene, Oceanography, Quaternary Research, Quaternary Science Reviews*

Ad hoc reviewer: NSF Arctic Natural Sciences, Irish Research Council

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| 2021 | Primary convener for oral session at AGU Fall Meeting: "Human responses to Late Quaternary Paleoenvironmental Change" |
| 2021 | Panelist, Negotiating for an Academic Position, Woods Hole Oceanographic Institution |
| 2020, 2021 | Panelist, Scientific Writing Workshop: Essential Skills for Earth Scientists, AGU Fall Meeting |
| 2019 | Primary convener for oral session at AGU Fall Meeting: "Catching cosmic rays: Advances in using cosmogenic nuclides to quantify earth surface processes" |
| 2019 | Co-convener for technical session at GSA Annual Meeting: "Cordilleran Ice Sheet through the Quaternary: Chronology, paleoenvironments, and implications" |
| 2017-2019 | Faculty Liaison, Department of Geology, University at Buffalo |
| 2017 | Local organizing committee, NSF-sponsored workshop on Greenland Ice Sheet Stability |
| 2017 | K-12 Education and Outreach Committee, Buffalo March for Science |
| 2015-2017 | University at Buffalo Science Exploration Day |
| 2014-2017 | Graduate Student Association Senator, University at Buffalo |
| 2011-2013 | "Can You Dig It?" presenter, Florida Museum of Natural History |
| 2011-2013 | Museum Docent, Florida Museum of Natural History |

FIELD CAMPAIGNS

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| 2021 | Teton Range, Wyoming
Collecting rock samples for ^{10}Be and ^{36}Cl dating |
| 2021 | Southeastern Alaska
Collecting rock samples for ^{36}Cl and Ar-Ar dating |
| 2020 | Seacoast Region, New Hampshire
Collecting rock samples for ^{10}Be dating |
| 2019 | Teton Range, Wyoming
Collecting rock samples for ^{10}Be , ^{14}C , and ^{36}Cl dating |

- 2019 **Southeastern Alaska**
Collecting rock samples for ^{10}Be , ^{36}Cl , and Ar-Ar dating, lake sediment coring
- 2018 **Collegiate Peaks, Colorado**
Collecting rock samples for ^{10}Be dating
- 2017 **Southeastern Alaska**
Collecting rock samples for ^{10}Be dating (self-directed; included UB undergraduate student Christopher Sbarra as a field assistant)
- 2017 **Nuuk region, southwestern Greenland**
Collecting rock samples for ^{10}Be dating, lake sediment coring
- 2016 **Kangerlussuaq region, southwestern Greenland**
Collecting rock samples for ^{10}Be dating, lake sediment coring, GPS mapping of moraines
- 2015 **Southeastern Alaska**
Collecting rock samples for ^{10}Be dating
- 2014 **Sukkertoppen region, southwestern Greenland**
Collecting rock samples for ^{10}Be dating, lake sediment coring, GPS mapping of moraines, collecting *in situ* fossilized moss emerging from ice caps

MEDIA

- 2021 [Sitka Nature Show Episode #241](#)
KCAW Radio (Sitka, Alaska)
- 2020 [Stone artifacts hint that humans reached the Americas surprisingly early](#)
Science News
- 2020 [Continental ice sheet left Southeast Alaska thousands of years earlier](#)
KFSK Community Radio (Petersburg, Alaska)
- 2020 [Current, past Tongass employees essential to Cordilleran Ice Sheet research](#)
Tongass National Forest Newsletter
- 2019 [First Americans arrived at least 16,000 years ago, and probably by boat](#)
PBS NOVA
- 2019 [2,000-Year-Old Tattoo Tool Found in Washington Storage Closet](#)
Gizmodo
- 2018 [Humans May Have Reached North America by More Than One Route](#)
Gizmodo
- 2018 [Boulder-sized Clues to How Humans Settled the Americas](#)
The New York Times
- 2018 [The First Americans 'island hopped' down the west coast past the glaciers](#)
Quirks & Quarks (Canadian Broadcasting Company podcast)
- 2018 [How Did Ancient Humans Travel to America from Asia? New Research Looks at Pacific Coast](#)
Newsweek

- 2018 [New map of Alaska's ancient coast supports theory that America's first people arrived by boat](#)
Science Magazine

PROFESSIONAL DEVELOPMENT

- 2021 Grants 101 Bootcamp, CUNY Advanced Science Research Center
2021 Unlearning Racism in the Geosciences (URGE), University of New Hampshire
2020 "Introduction to Inclusive Teaching" course, University of New Hampshire
2018 NAVIGATE Project participant, an NSF-funded initiative to increase the retention of women in STEM fields
2018 "Science Communication for Any Audience" workshop, CIRTl Network
2017 Associate level certification, CIRTl

AFFILIATIONS

- American Geophysical Union (AGU)
Geological Society of America (GSA)
Center for the Integration of Research, Teaching and Learning (CIRTl)
Out in Science, Technology, Engineering, and Mathematics (oSTEM)
Women in Science and Engineering (WiSE)