

KATHARINE C. KELSEY

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Assistant Professor

Department of Geography & Environmental Science

University of Colorado (CU) Denver

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EDUCATION

- 2015 **PhD**, University of Colorado, Boulder; *Environmental Studies - Biogeoscience*
2011 **MS**, University of Colorado, Boulder; *Geology*
2007 **BS**, University of Puget Sound; *Geology*

PROFESSIONAL EXPERIENCE

- 2019 – present **Dept. of Geography and Environmental Science**, Asst Professor, CU Denver
2015 – 2019 **Dept. of Biological Sciences**, Postdoctoral Fellow, UA Anchorage
2011 – 2015 **Terrestrial Biogeochemistry Lab**, Graduate Research Assistant, CU Boulder
2008 – 2011 **US Geological Survey**, Physical Science Technician, Boulder, CO

PEER REVIEWED PBLICATIONS, EXHIBITIONS, PERFORMANCES, ETC.

- 2026** Chirvasa, C., Petit Bon, M., Bladen K. K., **Kelsey, K.C.**, Leffler, A.J., Williams, T.J., Beard, K.H., Rapid plant functional trait responses to warming, flooding and herbivory in high-latitude coastal wetlands. *Oecologia*, 208(3); DOI: 10.1007/s00442-026-05876-8
- 2025** **Kelsey, K.C.**, Leffler, A.J., Petit Bon, M., Barr, B., Beard, K.H., Responding to rising waters and temperatures: Greenhouse gas flux from a high-latitude coastal wetland, *Environmental Research Letters*; DOI: 10.1088/1748-9326/adff98
- 2025** Barr, B.N., **Kelsey, K.C.**, Leffler, A.J., Petit Bon, M., Beard, K.H., Salinity and moisture influence CO₂ and CH₄ production from high latitude coastal soils, *Journal of Geophysical Research – Biogeosciences* 103; DOI: 10.1029/2024JG008629
- 2024** Crawford, B., **Kelsey, K.C.**, Ibsen, P., Rees, A., Charobee, A., Intra-urban variations in land surface phenology in a semi-arid environment, *Environmental Research Letters* 20(1); DOI: 10.1088/1748-9326/ad9759
- 2024** Petit Bon, M., Leffler, A.J., **Kelsey, K.C.**, Williams, T.J., Beard, K.H., Projected near-future flooding and warming increase graminoid biomass in a high latitude coastal wetland, *Journal of Ecology* 112(12), 2715-2730; DOI: 10.1111/1365-2745.14418
- 2023** **Kelsey, K.C.**, Pedersen, S.H., Leffler, A.J., Sexton, J.O., Feng, M., Welker, J.M., Snow and vegetation seasonality influence seasonal trends of leaf nitrogen and biomass in Arctic tundra, *Ecosphere* 14(5); DOI: 10.1002/ecs2.4515
- 2023** Beard, K.H., **Kelsey, K.C.**, Choi, R.T., Welker, J.M., Leffler, A.J., Goose Feces Effects on Subarctic Soil Nitrogen Availability and Greenhouse Gas Flux, *Ecosystems* (26):187-200; DOI: 10.1007/s10021-022-00752-x
- 2022** Rodman, K.C., Andrus, R.A., Carlson, A.R., Carter, T.A., Chapman, T.B., Coop, J.D., Fornwalt, P.J., Gill, N.S., Harvey, B.J., Hoffman, A.E., **Kelsey, K.C.**, Kulakowski, D., Laughlin, D.C., Morris, J.E., Negrón, J.F., Nigro, K.M., Pappas, G.S., Redmond, M.D., Rhoades, C.C., Rocca, M.E., Schapira, Z.H., Sibold, J.S., Stevens-Rumann, C.S., Veblen,

- T.T., Wang, J., Zhang, X., Hart, S.J., Rocky Mountain forests are poised to recover following bark beetle outbreaks, but with altered composition, *Journal of Ecology* (110): 2929-2949; DOI: 10.1111/1365-2745.13999
- 2022** Leffler, A. J., Becker, H. A., **Kelsey, K. C.**, Spalinger, D. A., Welker, J. M., Short-term effects of summer warming on caribou forage quality are mitigated by long-term warming, *Ecosphere*, 13(6); DOI 10.1002/esc2.4104.
- 2022** Choi, R.T., Petit Bon, M., Leffler, A.J., **Kelsey, K.C.**, Welker, J.M., Beard, K.H., Short-term effects of experimental goose grazing and warming differ in three low-Arctic coastal wetland plant communities, *Journal of Vegetation Science* 33(3); DOI: 10.1111/jvs.13139
- 2021** **Kelsey, K.C.**, Pedersen, S.H., Leffler, A.J., Sexton, J.O., Feng, M., Welker, J.M., Winter snow and spring temperature have differential effects on vegetation phenology and productivity across Arctic plant communities, *Global Change Biology*, doi: 10.1111/gcb.15505.
- 2021** Ballantyne, A.P., Liu, Z., Anderegg, W.R.L., Yu, Z., Stoy, P., Poulter, B., Vanderwall, J., Watts, J., **Kelsey, K.C.**, Neff, J.C., Reconciling carbon-cycle processes from ecosystem to global scales, *Frontiers in Ecology and the Environment*, 19(1): 57–65; DOI: 10.1002/fee.2296.
- 2020** Chin A., Simon, G.L., Anthamatten, P., **Kelsey, K.C.**, Crawford, B.R., Weaver, A.J., Pandemics and the future of human-landscape interactions, *Anthropocene*, 31, DOI: 10.1016/j.ancene.2020.100256.
- 2020** Choi R.T., Beard, K.H., **Kelsey, K.C.**, Leffler, A.J., Schmutz, J.A., Welker, J.M., Early Goose Arrival Increases Soil Nitrogen Availability More Than an Advancing Spring in Coastal Western Alaska, *Ecosystems* (23): 1309–1324; DOI: 10.1007/s10021-019-00472-9.
- 2019** Beard K.H., **Kelsey, K.C.**, Leffler, A.J., Welker J.M., The Missing Angle: Ecosystem Consequences of Phenological Mismatch, *Trends in Ecology and Evolution*, 34(10): 885–888; DOI: 10.1016/j.tree.2019.07.019.
- 2019** Leffler, A.J., Beard, K.H., **Kelsey, K.C.**, Choi, R.T., Schmutz, J.A., Welker, J.M., Cloud cover and delayed herbivory relative to timing of spring onset interact to dampen climate change impacts on net ecosystem exchange in a coastal Alaskan wetland, *Environmental Research Letters*, 14(8). DOI: 10.1088/1748-9326/ab1c91.
- 2019** Choi R. T., Beard, K. H., Leffler, A. J., **Kelsey, K. C.**, Schmutz, J. A., Welker, J. M., Phenological mismatch between season advancement and migration timing alters Arctic plant traits, *Journal of Ecology*, 107(5): 2503–2518. DOI: 10.1111/1365-2745.13191.
- 2019** Beard K.H., Choi, R.T., Leffler, A.J., Carlson, L.G., **Kelsey, K. C.**, Schmutz, J.A., Welker J.M., Migratory goose arrival time plays a larger role in influencing forage quality than advancing springs in an Arctic coastal wetland, *PloS ONE*, 14(3); DOI: 10.1371/journal.pone.0213037.
- 2018** **Kelsey, K.C.**, Leffler, A.J., Beard, K.H., Choi, R.T., Schmutz, **J.A.**, Welker J.M., Phenological mismatch in coastal western Alaska may increase summer season greenhouse gas uptake, *Environmental Research Letters*, 13(4); DOI: 10.1088/1748-9326/aab698.
- 2018** Leffler, A.J., Beard, K.H., **Kelsey, K.C.**, Choi, R.T., Schmutz, J.A., Welker, J.M., Delayed herbivory by migratory geese increases summer-long CO₂ uptake in coastal western Alaska, *Global Change Biology*; DOI: 10.1111/gcb.14473.

- 2018** Redmond, M.D. and **Kelsey K.C.**, Topography and overstory mortality interact to control tree regeneration in spruce-fir forests of the southern Rocky Mountains, *Forest Ecology and Management*, 427:106-133; DOI: 10.1016/j.foreco.2018. 05.057.
- 2018** **Kelsey, K.C.**, Redmond, M.D., Barger N.N., Neff, J.C., Species, Climate and Landscape Physiography Drive Variable Growth Trends in Subalpine Forests, *Ecosystems* 21(1): 125-140; DOI: 10.1007/s10021-017-0139-7.
- 2017** Redmond, M.D., **Kelsey K.C.**, Urza, A.K., Barger, N.N., Interacting effects of climate and landscape physiography on piñon pine growth using an individual-based approach, *Ecosphere*, 8(3):e01681; DOI: 10.1002/ecs2.1681.
- 2017** Lu, X., **Kelsey K.C.**, Yan, Y., Sun, J., Wang, X., Cheng G., Neff J.C., Effects of grazing on ecosystem structure and function of alpine grasslands in the Qinghai-Tibetan Plateau, *Ecosphere*, 8(1):e01656; DOI: 10.1002/ecs2.1656.
- 2016** **Kelsey, K.C.**, Leffler, A.J., Beard K.H., Schmutz J.A., Choi R.T., Welker J.M., Interactions among vegetation, climate, and herbivory control greenhouse gas fluxes in a subarctic coastal wetland, *Journal of Geophysical Research – Biogeosciences*, 128(12): 2960 – 2975; DOI: 10.1002/2016JG003546.
- 2016** Dilling, L., **K.C. Kelsey**, Fernandez, D.P., Huang, Y.D., Milford, J.B., Neff, J.C., Managing carbon on federal public lands: Opportunities and challenges in southwestern Colorado, *Environmental Management*, 58(2):283-296; DOI:10.1007/s00267-016-0714-2.
- 2014** **Kelsey, K.C.**, Barnes, K.L., Ryan, M.G., Neff, J.C., Short and long-term carbon balance of bioenergy electricity production fueled by forest treatments, *Carbon Balance and Management*, 9(6); DOI: 10.1186/s13021-014-0006-1.
- 2014** **Kelsey, K.C.**, Neff, J.C., Improving Regional Estimates of Aboveground Biomass from Texture Analysis of Landsat Imagery, *Remote Sensing*, 6(7): 6407-6422.
- 2012** **Kelsey, K.C.**, Wickland, K.P., Striegl, R.G., Neff, J.C., Variation in Soil Carbon Dioxide Efflux at Two Spatial Scales in a Topographically Complex Boreal Forest; *Arctic, Antarctic and Alpine Research*, 44(4): 457-468; DOI: 10.1657/1938-4246-44.4.457.

GRANTS

EXTERNAL FUNDING

Total external funding August 2019 – Aug 2025: \$554,250

For collaborative awards, the award amount to CU Denver is listed in parentheses

Years	Award Information	Requested	Award
2022-2023	<i>Principle Investigator</i> , “RAPID: Collaborative Research: Typhoon Merbok in coastal western Alaska: Extent of flooding and impacts on plant communities and ecosystem function,” National Science Foundation, Arctic System Science, Award No. 2302107	\$199,075 (\$41,789)	\$199,075 (\$41,789)
2021-2026	<i>Principle Investigator</i> , “Collaborative Research: GCR: Co-defining climate refugia to inform the management of mountain headwater systems,” National Science Foundation, Growing Convergence Research, Award No. 2120828	\$3,599,998 (\$444,889)	\$1,199,998 (\$135,491)

2022-2024	<i>Principle Investigator</i> , “Collaborative Research: Climate-induced sea-level rise, warming and herbivory effects on vegetation and greenhouse gas emission in coastal western Alaska,” National Science Foundation, Arctic Natural Science, Award No. 2113750	\$1,892,717 (\$542,118)	\$1,400,000 (\$376,970)
2025-2030	<i>Principle Investigator</i> , “CAREER: The role of snow in Arctic and Alpine ecosystems under a changing climate - developing mechanistic understanding and education tools for a rapidly changing system,” National Science Foundation, Arctic System Science	\$705,494	Not funded
2024-2029	<i>Principle Investigator</i> , “CAREER: The role of snow in Arctic and Alpine ecosystems under a changing climate - developing mechanistic understanding and education tools for a rapidly changing system,” National Science Foundation, Arctic System Science	\$690,627	Not funded
2025-2030	<i>Principle Investigator</i> , “Collaborative Research: Sources and ages of trace gas emissions driven by changing terrestrial-hydrologic connectivity in discontinuous permafrost landscapes,” National Science Foundation, Office of Polar Programs, Arctic System Science	\$705,494	Not funded
2024-2029	<i>Principle Investigator</i> , “Collaborative Research: Sources and ages of trace gas emissions driven by changing terrestrial-hydrologic connectivity in discontinuous permafrost landscapes,” National Science Foundation, Office of Polar Programs, Arctic System Science	\$540,213	Not funded
2021-2025	<i>Principle Investigator</i> , “Collaborative Research: Permafrost regime shifts in Arctic landscapes: Carbon cycle feedbacks from disappearing lakes,” National Science Foundation, Office of Polar Programs, Arctic System Science	\$324,613	Not funded
2020-2023	<i>Principle Investigator</i> , “Collaborative Research: Sea-level rise, warming and herbivory effects on vegetation communities and greenhouse gas emissions in coastal western Alaska,” National Science Foundation, Arctic Natural Science	\$540,352	Not funded

INTERNAL FUNDING

Total internal funding August 2019 – May 2023: \$42,559

Years	Award Information	Requested	Funded
2024	<i>Early Career Professional Development Grant</i> , Center for Faculty Development and Advancement	\$500	\$500

2023	<i>Open Educational Resources Grant; Teaching and Pedagogical Innovation</i>	\$1500	\$1500
2022	<i>Early Career Professional Development Grant, Center for Faculty Development and Advancement</i>	\$500	\$500
2022	<i>Teaching Enhancement Grant, “The Decomposition Experiment: using tea bags and a simple, published scientific protocol to design and perform a biogeochemistry study,” Center for Excellence in Teaching and Learning</i>	\$1059	\$1059
2021	<i>New Faculty Grant, Principle Investigator, “Colder growing conditions in a warmer world? Effects of altered snowpack properties on alpine plant growth,” Office of Research Services</i>	\$24,755	\$21,000
2020	<i>Young Upwardly Mobile Professor Grant, Center for Faculty Development and Advancement</i>	\$500	\$500
2020	<i>ORS Large Grant, Co-Principle Investigator, “Altered phenology: how do cities affect vegetation growing season length and timing?” Office of Research Services</i>	\$25,000	\$20,000

OTHER INDICATORS OF SCHOLARLY AND CREATIVE ACTIVITY

GOOGLE SCHOLAR SCORE (Jan 8, 2026)

Total citations: 1210

h-Index (the maximum value that h papers have each been cited at least h times): 17

i10-Index (the number of articles with at least 10 citations): 22

NON-PEER REVIEWED PRESENTATIONS AT MEETINGS/CONFERENCES

- 2025** **Kelsey, K. C.**, Leffler A. J., Petit Bon, M., Bricker, C., DiCianna, M., Beard, K. H., Flooding and Warming Drive More Complex Greenhouse Gas Responses in an Arctic Coastal Wetland Than Adjacent Coastal Tundra, *American Geophysical Union*, New Orleans, LA, Dec 15-19, 2025. Oral Presentation.
- 2025** Bricker, C., Petit Bon, M., Leffler A. J., Beard, K. H., **Kelsey, K. C.**, Carbon Fluxes and Plant Traits Respond More to Sedimentation than Salinity Change in a High-Latitude Wetland, *American Geophysical Union*, New Orleans, LA, Dec 15-19, 2025. Poster Presentation.
- 2025** Parsons, C. **Kelsey, K. C.**, Elmendorf S., Buma, B., Altered snowpack depth and timing affects subalpine vegetative phenology, functional traits, and community composition, *Botany 2025*, Palm Springs, CA, July 28-Aug 1, 2025. Poster Presentation.
- 2024** **Kelsey, K. C.**, Leffler A. J., Petit Bon, M., Beard, K. H., Flooding and warming alter summer land-atmosphere gas exchange in a high latitude coastal wetland, *International Tundra Experiment*, Vancouver, Canada, April 7-10, 2024. Oral and Poster Presentation.
- 2023** Barr, B. N., **Kelsey, K. C.**, Soil CO₂ and CH₄ emissions in Arctic coastal wetlands are influenced by both salinity and soil moisture, *American Geophysical Union*, San Francisco, CA, Dec 11-15, 2023. Poster Presentation.

- 2022 **Kelsey, K. C.,** Nortentoft, B. B., Effects of intermittent winter snow properties on soil conditions and plant productivity on and urban farm in Denver, CO, USA, *American Geophysical Union*, Chicago, IL, Dec 12-16, 2022. Poster Presentation.
- 2021 **Kelsey, K. C.,** Beard, K. H., Leffler, A. J., Choi, R. T., Welker, J. M., Phenological mismatch between goose migration and start of spring alters ecosystem function in a subarctic North American wetland, *Association for the Sciences of Limnology and Oceanography*, Remote, Jun 22-27, 2021. Oral Presentation.
- 2021 **Kelsey, K. C.,** Pedersen, S. H., Leffler, A. J., Sexton, J. O., Welker J. M., Satellite derived vegetation phenology predicts foliar N, total N and biomass of Arctic vegetation in Arctic Alaska, *American Geophysical Union*, Remote, New Orleans, LA, Dec 13-17, 2021. Poster Presentation.
- 2020 **Kelsey, K. C.,** Pedersen, S. H., Leffler, A. J., Sexton, J. O., Feng, M., Welker J. M., Winter and spring drivers of phenology are consistent but drivers of productivity differ among vegetation types in northern Alaska, *Ecological Society of America*, Remote, Salt Lake City, Utah, Aug 4-8, 2020. Oral Presentation.
- 2019 **Kelsey, K. C.,** Pedersen, S. H., Leffler, A. J., Sexton, J. O., Welker J. M., Variability in snow conditions as a driver of vegetation phenology and productivity across the North Slope of Alaska, *American Geophysical Union*, San Francisco, CA, Dec 9-14, 2019.
- 2018 **Kelsey, K. C.,** Using Daily NDVI to Understand Climate-Induced Changes in Vegetation Phenology During Critical Time Periods for Caribou Foraging in Northern Alaska, *University of the Arctic, Arctic Congress*, Oulu Finland, Sept 4, 2018. Oral Presentation.
- 2017 **Kelsey, K. C.,** Leffler, A. J., Beard, K. H., Schmutz, J., Choi, R. T., Welker, J. M., Climate Driven Changes in Phenology and Grazing Alter Greenhouse Gas Emissions from Alaskan Coastal Tundra, *Ecological Society of America Annual Meeting*, Portland, OR Aug 7-11, 2017. Oral Presentation.
- 2017 **Kelsey, K. C.,** Leffler, A. J., Beard, K. H., Schmutz, J., Choi, R. T., Welker, J. M., Effects of Phenological Changes in Herbivore-Vegetation Interactions in Alaskan Coastal Tundra, *Western Alaska Interdisciplinary Science Conference*, April 26 – April 29, 2017, Unalaska, Alaska. Oral Presentation.
- 2016 **Kelsey, K. C.,** Leffler, A. J., Beard, K. H., Lynöe, R.T., Choi, R. T., Welker, J. M., Greenhouse gas (CO₂, CH₄ & N₂O) feedbacks are regulated by phenological changes in herbivore-vegetation interactions in Alaskan coastal tundra, *American Geophysical Union Fall Meeting*, San Francisco, CA Dec 12-16, 2016. Poster Presentation.
- 2015 **Kelsey, K. C.,** Leffler, A. J., Beard, K. H., Choi, R. T., Welker, J. M., Sub-arctic Wetland Greenhouse Gas (CO₂, CH₄ & N₂O) Emissions are Driven by Interactions of Environmental Controls and Herbivore Grazers, *American Geophysical Union Fall Meeting*, San Francisco, CA Dec 14-18, 2015. Oral Presentation.
- 2015 **Kelsey, K. C.,** Barger, N. N., Dilling, L., Fernandez, D. P., Milford, J.B., Redmond, M. D., Neff, J. C., Managing Forest Carbon on Public Lands Under a Changing Climate, *5th Annual North American Carbon Program Investigators Meeting*, Washington DC, Jan 26-29, 2015. Poster Presentation.
- 2014 **Kelsey, K. C.,** Barger, N. N., Neff, J. C., Interacting Effects of Climate and Regional Landscape Physiography on High Elevation Forest Growth. *American Geophysical Union Fall Meeting*, San Francisco, CA Dec 15-19, 2014. Poster Presentation.
- 2013 **Kelsey, K.C.,** Neff, J.C., Creating a Multi-Proxy Based Estimate of Regional Carbon Stocks

from Ground-Based Biomass Measurements and Remotely Sensed Imagery. *American Geophysical Union Annual Conference*, December 9-13, 2013, San Francisco, CA. Oral Presentation.

- 2013** **Kelsey, K.C.,** Fernandez, D., Neff, J.C., Mapping Forest Carbon Stocks and Quantifying Carbon Stock Uncertainty in San Juan National Forest, 4th *Annual North American Carbon Program Investigators Meeting*, February 4-7, 2013,
- 2011** **Kelsey, K.C.,** Wickland, K.P., Striegl, R.G., Neff, J.C., Spatial variability in soil CO₂ production and CO₂ efflux from a topographically complex mature black spruce forest, interior Alaska. *American Geophysical Union Annual Conference*, Dec 5-9, 2011, San Francisco, CA. Poster Presentation.
- 2011** **Kelsey, K.C.,** Wickland, K.P., Striegl, R.G., Neff, J.C., How does complex topography affect soil respiration in boreal forests? 41st *International Arctic Workshop*, March 2-4, 2011, Montreal, Canada. Oral presentation.
- 2010** **Kelsey, K.C.,** Wickland, K.P., Striegl R., Neff, J.C., The effects of small and large scale landscape heterogeneity on soil CO₂ production and efflux from a mature black spruce forest. *American Geophysical Union Annual Conference* December 13-17, 2011, San Francisco, CA. Poster Presentation.
- 2010** **Kelsey, K.C.,** Wickland, K.P., Topographic controls on soil respiration and methane flux in a boreal forest watershed, 40th *International Arctic Workshop*, March 10-12, 2010, Winter Park, CO. Poster Presentation.
- 2007** **Kelsey, K.C.,** Horton, T., Source and fate of metals in two catchments of the Upper Columbia River Basin, Stevens County, WA, *Geological Society of America, Spring Cordillera Meeting*, May 4-6, 2007, Bellingham, WA. Poster Presentation.

SEMINARS/WORKSHOPS PRESENTED * indicates invited

- 2025 *** **Kelsey, K. C.,** The Impact of Climate Change on Biogeochemical Processes in Coastal Alaska, *Department of Chemistry Seminar*, CU Denver, January 31, 2025
- 2023 *** **Kelsey, K. C.,** Exploring the causes and consequences of phenological change in Arctic ecosystems, *Integrated Biology Seminar*, CU Denver, January 27, 2023
- 2021 *** **Kelsey, K. C.,** Causes and consequences of climate change-induced temporal changes to ecosystem processes in the Arctic, *Invited seminar, Institute of Arctic and Alpine Research*, CU Boulder, September 27, 2021.
- 2021** **Kelsey, K. C.,** From the mountains to the sea: Tackling challenges of a rapidly changing environment, *Joint presentation for CU Denver Geography and Environmental Science colloquium*, September 3, 2021.
- 2020** **Kelsey, K. C.,** Chin, A., COVID-19: Why is it and “Anthropocene” problem and what does it mean for ecological sustainability? *Geography and Environmental Science*, CU Denver, May 1, 2020.
- 2020 *** **Kelsey, K. C.,** Ecological and Biogeochemical Responses to Climate Change, Land Management and Herbivory, *Invited Seminar; Department of Integrative Biology*, CU Denver, April 10, 2020.
- 2017 *** **Kelsey, K. C.,** Ecological and Biogeochemical Effects of Climate Change, Herbivory and Land Management, *Invited Seminar; Department of Natural Resource Management, South Dakota State University*, Brookings, SD Nov 17, 2017. Oral Presentation.

- 2017 *** **Kelsey, K. C.**, Dilling, L., Fernandez, D.P., Huang, Y.D., Milford, J.B., Neff, J.C., Managing carbon on federal public lands: Opportunities and challenges in southwestern Colorado, *2017 Forest Vegetation Simulator e-Conference*, Ft. Collins CO, Feb 28 – March 2, 2017. Oral Presentation.
- 2014 *** **Kelsey, K. C.**, Improving Estimates of Aboveground Forest Biomass Using Texture Analysis of Landsat Imagery: Applications within San Juan National Forest. *Invited Seminar Presentation, US Geological Survey, Geosciences and Environmental Change Center*, Denver, CO May 28, 2014.

PROFESSIONAL ORGANIZATIONS

American Geophysical Union, member, 2009-present

PUBLICATIONS/CREATIVE WORKS IN PREPARATION

- In revision** Ross, J. Beard, K.H., **Kelsey, K.C.**, Petit Bon, M., Leffler, A.J., Multiple climate change effects on carbon emissions and ammonification across lowland to upland soils from a high latitude coastal ecosystem, *Biogeochemistry*
- In revision** Chirvasa, C., Petit Bon, M., Bladen, K., **Kelsey K. C.**, Leffler A.J., Williams, T., Beard K.H., Rapid plant functional trait responses to warming, flooding, and herbivory in high-latitude coastal wetlands, *Oecologia*
- In review** Petit Bon, M., Leffler A.J., **Kelsey K. C.**, Santos E. A., Barr B. N., Ross, J. M., Beard K.H., Projected near-future flooding and warming increase graminoid biomass in a high latitude coastal wetland

COURSES TAUGHT (CU DENVER)

ENVS 6002 *Research Topics in Environmental Science*

ENVS 1044 *Introduction to Environmental Science*

GEOG 4010/ENVS 5010 *Landscape Biogeochemistry*

GEOG 4270/ENVS 5270 *Climate Change: Causes, Impacts and Solutions*

LEADERSHIP AND SERVICE

DEPARTMENT LEADERSHIP AND SERVICE

- 2020-present *Chair*, Teaching, Curriculum and Assessment Committee; Department of Geography and Environmental Sciences
- 2019-2020 *Member*, Teaching, Curriculum and Assessment Committee; Department of Geography and Environmental Sciences
- 2019-2021 *Member*, Ad-hoc committee to revise Master of Environmental Science; Department of Geography and Environmental Sciences
- 2019 *Member*, Search committee for Human Geographer faculty position; Department of Geography and Environmental Sciences

UNIVERSITY LEADERSHIP AND SERVICE

- 2025-2026 *Interim Chair*, College of Liberal Arts and Sciences Faculty Council

2023-2025 *Executive Committee Member, CLAS Faculty Council, CU Denver*
2020-2023 *Member, Faculty Assembly, CU Denver*

PROFESSIONAL LEADERSHIP AND SERVICE

November 2024 *Panelist, Panel to evaluate proposals to Arctic Natural Sciences Directorate, National Science Foundation*
October 2022 *Panelist, Panel to evaluate proposals to Arctic Natural Sciences Directorate, National Science Foundation*
2020-2021 *Member, Honors Canvassing Oversight Committee, American Geophysical Union*
May 2020 *Panelist, Panel to evaluate proposals to Navigating the New Arctic program, National Science Foundation*
Dec 2019 *Session Chair, American Geophysical Union, “Science Communication at Multiple Scales”, San Francisco, CA, December 9-13, 2019*
June 5, 2020 *Skype a Scientist; 22 3rd Graders in Philadelphia*
May 7, 2021 *Skype a Scientist; ~60 6th Graders, Eastern High School, Lansing Michigan*

AWARDS AND HONORS

CU Denver College of Liberal Arts and Sciences–Excellence in Teaching Award, 2024

CU Denver College of Liberal Arts and Sciences–Excellence in Research & Creative Work Award, 2023