

Curriculum Vitae

Dr. June Skeeter (they/them/theirs)

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Education

PhD Geography, University of British Columbia (UBC)	2023
<ul style="list-style-type: none">Using machine learning to identify and map controls of growing-season carbon dioxide and methane fluxes in the Mackenzie Delta region	
MsC Geography, University of South Carolina (USC)	2015
<ul style="list-style-type: none">Ammonium Concentrations Above a Louisiana Sugarcane Field	
BS Geography & BS Earth Science, Salisbury University (SU)	2013
<ul style="list-style-type: none">Minor in StatisticsGraduated Cum Laude	

Employment

Research Scientist: Natural Resources Canada	2024+
<ul style="list-style-type: none">Leading Eddy Covariance (EC) Research Program in Western Canadian ArcticInvestigating Geologic Methane Emissions in the Mackenzie Delta RegionAdvising territorial and indigenous governments on climate mitigationDeveloping open access tools to facilitate data processing	
Postdoctoral Researcher: University of British Columbia (UBC)	2023-2024
<ul style="list-style-type: none">Automated, parallelized, and streamlined data processing pipelineImplemented and managed version control (git/github) for lab's codebaseManaged EC stations in Burn's Bog Ecological Conservancy AreaMentored graduate students	
Sessional Instructor UBC	2020-2024
<ul style="list-style-type: none">Microscale Weather and Climate: https://geos300.github.io/Atmospheric Environments: https://geos200.github.io/Geographic Information Science: https://geos270.github.io/	
Graduate Assistant UBC Library Research Commons	2020-2022
Teaching Assistant UBC Geography Department	2015-2019
Research Assistant University of South Carolina	2013-2015

Publications

Peer Reviewed Articles

- Exler, J. L., **Skeeter, J.**, Christen, A., & Moore, R. D. (2025). Interannual climatic sensitivity of surface energy flux densities and evapotranspiration in a disturbed and rewetted ombrotrophic bog. *Agricultural and Forest Meteorology*, 367, 110501. <https://doi.org/10.1016/j.agrformet.2025.110501>
- Thayamkottu, S., Masta, M., **Skeeter, J.**, Pärn, J., Knox, S. H., Smallman, T. L., & Mander, Ü. (2025). Dual controls of vapour pressure deficit and soil moisture on photosynthesis in a restored temperate bog. *Science of The Total Environment*, 963, 178366. <https://doi.org/10.1016/j.scitotenv.2024.178366>

- Skeeter, J.**, Christen, A., & Henry, G. (2023). Modelling growing season carbon fluxes at a low-center polygon ecosystem in the Mackenzie River Delta. *Arctic Science*, 9(3), 689–709. <https://doi.org/10.1139/as-2022-0033>
- Skeeter, J.**, Christen, A., & Henry, G. H. R. (2022). Controls on carbon dioxide and methane fluxes from a low-center polygonal peatland in the Mackenzie River Delta, Northwest Territories. *Arctic Science*, 8(2), 471–497. <https://doi.org/10.1139/as-2021-0034>
- Skeeter, J.**, Christen, A., LaForce, A.-A., Humphreys, E., & Henry, G. H. R. (2020). Vegetation influence and environmental controls on greenhouse gas fluxes from a drained thermokarst lake in the western Canadian Arctic. *Biogeosciences*, 17(17), 4421–4441. <https://doi.org/10.5194/bg-17-4421-2020>
- Skeeter, J.**, Parnell, D. B., & Skeeter, B. R. (2016). A Fog Climatology of the Delmarva Peninsula. *The Geographical Bulletin*, 57(2), 65–75. <https://www.proquest.com/docview/1845101484/abstract/A0CE794EC54E4E8BPQ/1>
- Skeeter, J.** (2013). Using Radar Composites to Detect Variances in Precipitation from Cold Fronts Across the Chesapeake Bay: April Through October from 1997 to 2011. *Pennsylvania Geographer*, 51(1), 73–86.

Book chapter

- Skeeter, J.**, & Pickell, P. (2022). Chapter 3 Data Types and Spatial Data Models. In *Geomatics for Environmental Management: An Open Textbook for Students and Practitioners*. <https://www.opengeomatics.ca/types-of-data.html>

Presentations

Research Talks

- Skeeter, June.** (2025, March). Understanding Methane and Carbon Dioxide Emissions in the Mackenzie Delta Region. Presented at the Frank Butara Visist: Associate Director General of NRCan Communications and Portfolio Services in Vancouver BC, Vancouver BC. <https://june-skeeter.github.io/MackenzieDeltaFluxes>
- Skeeter, J.** (2024, October). An Application Program Interface for Automating and Parallelizing EddyPro®. Presented at the FLUXNET-CH4 V2.0 Data Processing Workshop in Berkley, CA, Berkley, CA. https://canflux.github.io/EddyPro_API/Documentation/about.html
- Skeeter, June.** (2023, December). Tools and Guidance for Applying Neural Networks to Eddy Covariance Data. Presented at the American Geophysical Union annual meeting in San Francisco, CA. https://june-skeeter.github.io/NN_Applications/
- Skeeter, June**, & Knox, S. (2023, May). A Framework for Applying Neural Networks to Eddy Covariance Data. Presented at the Canadian Geophysical Union annual meeting in Banff, AB.
- Skeeter, June**, & Knox, S. (2023, April). Ongoing and Proposed Research in the Burns Bog Ecological Conservancy Area. Presented at the CLASSIC/COHERENT-C Workshop in Victoria, BC. https://ubc-micromet.github.io/BBECA_Work/
- Skeeter, June.** (2021, October). Compiling and Mapping Police Involved Deaths: Systemic Racism in Canadian Policing. Presented at the Western Association of Map Librarians annual meeting in Vancouver, BC.
- Skeeter, June.** (2021, April). Police Killings and Systemic Racism in Canadian Policing. Presented at the Association of American Geographers annual meeting in *virtual.
- Ahmed, M., & **Skeeter, J.** (2019, October). How Can I Reduce My Carbon Footprint? Presented at the EcoCity World Summit in Vancouver, BC.
- Skeeter, June.** (2018, April). Growing Season Carbon Balance of a Permafrost Peatland in the Mackenzie River Delta. Poster presented at the European Geophysical Union annual meeting in Vienna, AT, Poster.
- Skeeter, June.** (2017, December). Growing Season Carbon Balance of a Mackenzie River Delta Peatland. Presented at the ArcticNet annual meeting in Quebec City, QC.

- Skeeter, June.** (2017, May). Vegetation Influence and Environmental Controls on Greenhouse Gas Fluxes from a Drained Thermokarst Lake in the Mackenzie River Delta, NWT. Presented at the Canadian Geophysical Union annual meeting in Vancouver, BC.
- Skeeter, June.** (2016, December). Carbon Dioxide and Methane fluxes at Illisarvik 2016. Presented at the ArcticNet annual meeting in Winnipeg, MB, Winnipeg, MB.
- Skeeter, June.** (2014, May). Identifying Source Areas of Ammonium Concentrations Sampled Above a Louisiana Sugarcane Field. Presented at the 31st Conference on Agricultural and Forest Meteorology in Portland OR, Portland OR.
- Skeeter, June.** (2014, April). Identifying Source Areas of Ammonium Concentrations Sampled Above a Louisiana Sugarcane Field. Presented at the Association of American Geographers annual meeting in Tampa, FL.
- Skeeter, June.** (2013, April). Fog Climatology of Salisbury, MD. Presented at the Salisbury University Student Research Conference in Salisbury MD, Salisbury MD.
- Skeeter, June.** (2013, April). Using Radar Composites to Detect Variances in Precipitation from Cold Fronts Across the Chesapeake Bay: April through October from 1997 to 2012. Presented at the Association of American Geographers annual meeting in Los Angeles CA, Los Angeles CA.
- Skeeter, June.** (2013, April). Using Radar Composites to Detect Variances in Precipitation from Cold Fronts Across the Chesapeake Bay: April through October from 1997 to 2012. Presented at the Association of American Geographers annual meeting in Los Angeles CA, Los Angeles CA.

Guest Lectures

- Skeeter, J.** (2023, February). Open Source GIS. Presented at the UBC CAPACITY workshop event in Vancouver, BC. <https://june-skeeter.github.io/OpenSourceGIS/>
- Skeeter, J.** (2022, March). Remote Sensing in Atmospheric Sciences. Presented at the Guest lecture, GEOS 373 in Vancouver, BC.
- Skeeter, J.** (2020, November). Data Normalization & Classification: Police Violence in North America. Presented at the Guest lecture, GEOS 270 in Vancouver, BC. <https://ubc-lib-geo.github.io/Data-Normalization-Classification/>
- Skeeter, J.** (2020, November). Remote Sensing in Atmospheric Sciences. Presented at the Guest lecture, GEOS 373 in Vancouver, BC.
- Skeeter, J.** (2017, July). Greenhouse Gas Exchange in the Outer Mackenzie Delta. Presented at the Aurora Research Institute Summer Speakers Series in Inuvik, NT, Inuvik, NT.

Poster Presentations

- Morse, P. D., Dallimore, S., Gordial, J., Lapham, L., MacLeod, R., Mollica, L., Norooz Oliaee, J., van der Sanden, J., et al. (2024, November). Collaborative Studies to appraise methane release from degrading permafrost, western Canadian Arctic. Poster presented at the Yellowknife Geoscience Forum in Yellowknife, NT, Poster, Yellowknife, NT. <https://event.fourwaves.com/ygf2024/abstracts/0ff20029-97a5-418b-b374-f87eb9a2c5a4>
- Skeeter, J.** (2018, April). Growing Season Carbon Balance of a Permafrost Peatland in the Mackenzie River Delta. Poster presented at the European Geophysical Union annual meeting in Vienna, AT, Poster.
- Skeeter, J.** (2016, December). Carbon Dioxide and Methane fluxes at Illisarvik 2016. Presented at the ArcticNet annual meeting in Winnipeg, MB, Winnipeg, MB.
- Skeeter, J.** (2014, November). Source Areas of Ammonium Sampled Above a Louisiana Sugarcane Field. Poster presented at the South Eastern Division of the Association of American Geographers annual meeting in Roanoke VA, Poster, Roanoke VA.
- Skeeter, J.** (2012, November). Using Radar Composites Created in Model Builder to Perform Statistical Analyses of Cold Frontal Precipitation Events in the Chesapeake Bay Region: April through October 1997-

2011. Presented at the South Eastern Division of the Association of American Geographers annual meeting in Asheville NC, Asheville NC.

Skeeter, J. (2011, October). The Possible Differing Influence of the Chesapeake Bay on Frontal and Squall Line Precipitation Events (April-October). Presented at the Middle Atlantic Division of the Association of American Geographers annual meeting in College Park, MD.

Technical Skills

Programming & Markup Languages	Software & Applications	Field & Research Methods
Python (15+ yrs)	ArcGIS & QGIS (10+ yrs)	Eddy Covariance (10+ yrs)
Matlab	Git & GitHub (10+ yrs)	Machine Learning (5+ yrs)
R (5+ yrs)	Google Earth Engine	Flux Chamber Sampling
Fortran	Quarto	Soil Carbon Sampling
Javascript	Mapbox API	Image Classification
CRBasic	Loggernet	Process-based Modelling
HTML/CSS	Eddy Pro	Footprint Modelling
Markdown		Drone Surveying
Latex		

Volunteer Work and Committee Positions

Advisory Board Northwest Territories Landscape Carbon Conference	2024 - 2025
Western Director, Canadian Society for Agriculture and Forest Meteorology	2023 - 2024
Police Involved Deaths in Canada Database	2020 - 2022
Graduate Committee Representative, UBC Geography	2019 - 2020
Climate Consultant, EcoMeet App	2019
Co-chair, UBC Geography Graduate Student Association	2018 - 2018
USC Geography Departmental Outreach Committee	2018 - 2018

Awards

Open Educational Resource Champion, UBC Alma Mater Society	2022
Four-year Doctoral Fellowship, UBC	2015 - 2019
Graduate Assistanceship Award, UBC	2013 - 2015
Presidential Scholarship, SU	2009 - 2013
Four-time AAG World Geography Bowls All Star Team Member	2009 - 2013
Outstanding Graduating Senior Award, SU Geography	2013
Outstanding Academic Achievement Award, SU Geography	2013
1st Place Student Paper Mid Atlantic Division AAG Annual Meeting	2012
Donald Lee Schul Jr. Memorial Wrestling Scholarship, SU	2009