

CURRICULUM VITAE

Robert G. Way B.A. (Hon.), M.Sc., Ph.D.

Nunatsiavut Beneficiary from Happy Valley-Goose Bay, NL
Department of Geography and Planning, Queen's University,
Kingston, Ontario, Canada, K7L3N6
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CURRENT POSITION: Assistant Professor (tenure-track), Department of Geography and Planning, Queen's University, Kingston, ON, Canada.

RESEARCH INTERESTS: Northern studies, climatology, remote sensing, cryospheric studies, environmental modelling, geographic information systems, geomorphology, climate adaptation.

DEGREES RECEIVED

Degree	Institution	Year
Ph.D.	University of Ottawa – <i>Summa Cum Laude</i> Doctor of Philosophy, Geography Dissertation title: <i>Field and modelling investigations of permafrost conditions in Labrador, northeast Canada</i> Supervisor: Dr. Antoni G. Lewkowicz Contributing external courses: University Centre in Svalbard – <i>Periglacial Geomorphology</i>	2017
M.Sc.	Memorial University of Newfoundland – <i>Magna Cum Laude</i> Master of Science, Geography Graduate Diploma in Teaching (2012) Thesis title: <i>The glaciers of the Torngat Mountains of northern Labrador</i> Supervisors: Dr. Trevor J. Bell and Dr. Nicholas E. Barrand	2013
B.A.	University of Ottawa – <i>Magna Cum Laude</i> Honours Bachelor of Arts with specialization in geography, minor in geomatics and spatial analysis. Contributing external courses: Athabasca University – <i>Introduction to Statistics</i> University of New Brunswick – <i>GIS and Forestry 1; GIS and Forestry 2; Digital Image Processing in Remote Sensing.</i> University of Oslo – <i>Geomorphology of Nordic Countries; Glaciology; Glacial and Periglacial Geomorphology; Advanced Remote Sensing and Topographic Analysis; Special Topics in Remote Sensing</i>	2010

EMPLOYMENT HISTORY

Past Professional Experience

Date	Position	Institution
July 1 st , 2018-present	Assistant Professor (tenure-track)	Department of Geography and Planning, Queen's University
Fall 2017 – Summer 2018	W. Garfield Weston Postdoctoral Fellow	Labrador Institute, Memorial University of Newfoundland
Summer 2015	Field Researcher and Research Assistant ¹	Department of Geography, University of Ottawa
Summer 2013	Field Researcher and Research Assistant ²	Department of Geography, University of Ottawa
Summer 2010	Geographic Information System Specialist ³	Institute for Environmental Monitoring and Research, Goose Bay, Labrador
Summer 2008	Geographic Information System Student Position ⁴	Crown Lands Division, Department of Environment and Conservation, Government of Newfoundland and Labrador

¹ Accompanied Dr. Antoni G. Lewkowicz as a field assistant in the southern Yukon and northern British Columbia. The projects primary goal was maintaining remote weather stations and downloading data at permafrost monitoring sites.

² Conducted preliminary field research and organized logistics for initiation of the Labrador Permafrost Project. Primary goal was the establishment of a network of permafrost monitoring stations across the southern Labrador-Ungava region.

³ Developed a primary database of ecological indicators being monitored as part of ongoing studies examining the effects of military activity on wildlife and ecosystems in central Labrador. Work primarily focused on tracking movements of the George River and Red Wine caribou herds. Limited field work included the establishment of small mammal monitoring stations near Muskrat Falls, Labrador.

⁴ Student position aimed at georeferencing aerial photography and mapping existing and prospective cabin dwellings in central Labrador. Limited field work consisted of visiting farmland dwellings to assess land parcel dimensions.

Teaching Experience

Upcoming September – December 2020	Assistant Professor – Will be teaching Climate Change (GPHY 314)	Department of Geography and Planning, Queen’s University
September – December 2019	Assistant Professor – Weather and Climate (GPHY 209) & Climate Change (GPHY 314)	Department of Geography and Planning, Queen’s University
January – April 2019	Assistant Professor – Selected Topics in Physical Geography: The North (GPHY 371)	Department of Geography and Planning, Queen’s University
September – January 2017	Part-time Professor - Methodological and Theoretical Approaches in Geography and Environmental Studies (GEG4104)	Department of Geography University of Ottawa
November – January 2016	Part-time Professor - Introduction to Physical Geography (GEG 1301)	Department of Geography University of Ottawa
April – June 2015	Massive open online course lecturer - Denial101x: Making Sense of Climate Science Denial	Administered through edX University of Queensland
September – December 2013	Teaching Assistant and Laboratory Instructor - Introduction to Remote Sensing (GEG 3105)	Department of Geography University of Ottawa
September – December 2011	Teaching Assistant and Laboratory Instructor - Introduction to Geographical Information Systems (GEOG 2195)	Department of Geography Memorial University of Newfoundland
September – December 2010	Teaching Assistant and Laboratory Instructor - Physical Geography (GEOG 2102)	Department of Geography Memorial University of Newfoundland

Administrative Service

2019 – 2020	Academic Appointments Committee. Two completed and one incomplete searches (Physical Geography, Urban-Economic Planning & Social Planning)	Department of Geography and Planning, Queen’s University
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Highly Qualified Personnel Supervision & Mentorship

2019 – Ongoing	Rosamond Tutton, MSc Student Physical Geography, Queen’s University	Principal Supervisor
2019 – Ongoing	Carolyn Bonta, PhD Candidate Physical Geography, Queen’s University	Supervisory Committee Member
2018 – Ongoing	Madeleine Garibaldi, PhD Student Physical Geography, University of Lethbridge	Supervisory Committee Member
2017 – Ongoing	Frédéric Dwyer-Samuel, MSc Candidate Biology, University de Montréal	Supervisor Committee Member

PUBLICATIONS

Articles published in refereed journals

[1] Nuccitelli, D., **Way, R.**, Painting, R., Church, J. and Cook, J. (2012). Comment on Ocean heat content and Earth’s radiation imbalance. II. Relation to climate shifts. *Physics Letters A*. 376(45): 3466-3468. DOI: 10.1016/j.physleta.2012.10.010

[2] Cook, J., Nuccitelli, D., Green, S.A., Richardson, M., Winkler, B., Painting, R., **Way, R.**, Jacobs, P. and Skuce, A. (2013). Quantifying the consensus on anthropogenic global warming in the scientific literature. *Environmental Research Letters*. 8(2): 1-7. DOI: 10.1088/1748-9326/8/2/024024 *

[3] Cowtan, K. and **Way, R.G.** (2014). Coverage bias in the HadCRUT4 temperature series and its impact on recent temperature trends. *Quarterly Journal of the Royal Meteorological Society*, 140(683): 1935-1944. DOI: 10.1002/qj.2297 ** ***

[4] **Way, R.G.**, Bell, T.J. and Barrand, N.E. (2014). An inventory and classification of the glaciers of the Torngat Mountains, northern Labrador, Canada. *Journal of Glaciology*, 60(223): 945-956. DOI: 10.3189/2014JoG13J195

[5] Nuccitelli, D., Cowtan, K., Jacobs, P., Richardson, M., **Way, R.G.**, Blackburn, A.M., Stolpe, M. and Cook, J. (2014). Comment on ‘Cosmic-ray-driven reaction and greenhouse effect of halogenated molecules: culprits for atmospheric ozone depletion and global climate change. *International Journal of Modern Physics B*, 28(13). DOI: 10.1142/S0217979214820037

[6] Cook, J., Nuccitelli, D., Skuce, A., Jacobs, P., Painting, R., Honeycutt, R., Green, S.A., Lewandowsky, S., Richardson, M. and **Way, R.G.** (2014). Reply to ‘Quantifying the consensus on anthropogenic global warming in the scientific literature: A re-analysis’. *Energy Policy*, 73: 706-708. DOI: 10.1016/j.enpol.2014.06.002

- [7] **Way, R.G.** and Viau, A.E. (2015). Natural and forced air temperature variability in the Labrador region of Canada during the past century. *Theoretical and Applied Climatology*, 121(3): 413-424. DOI: 10.1007/s00704-014-1248-2
- [8] **Way, R.G.** (2015). Multidecadal recession of Grinnell and Terra Nivea ice caps, Baffin Island, Canada. *ARCTIC*, 68(1): 45-53. DOI: 10.14430/arctic4461
- [9] Cawley, G.C., Cowtan, K., **Way, R.G.**, Jacobs, P. and Jokimaki, A. (2015). On a minimal model for estimating climate sensitivity. *Ecological Modelling*, 297: 20-25. DOI: 10.1016/j.ecolmodel.2014.10.018
- * Corrigendum to ‘On a minimal model for estimating climate sensitivity’ [Ecol. Model. 297 (2015) 20-25], DOI: 10.1016/j.ecolmodel.2014.10.018
- [10] Ladd, M., **Way, R.G.** and Viau, A.E. (2015). The impact of using different modern climate datasets in pollen-based paleoclimate reconstructions of North America. *Quaternary Science Reviews*, 112: 78-85. DOI: 10.1016/j.quascirev.2015.01.020
- [11] **Way, R.G.** and Bonnaventure, P.P. (2015). Testing a reanalysis-based infilling method for areas with sparse discontinuous air temperature data in northern Canada. *Atmospheric Science Letters*, 16(3): 398-407. DOI: 10.1002/asl2.574
- [12] **Way, R.G.**, Bell, T.J. and Barrand, N.E. (2015). Glacier change from the early Little Ice Age to present in the Torngat Mountains, northern Labrador, Canada. *Geomorphology*, 246(1): 558-569. DOI: 10.1016/j.geomorph.2015.07.006
- [13] Cowtan, K., Hausfather, Z., Hawkins, E., Jacobs, P., Mann, M.E., Miller, S.K., Steinman, B., Stolpe, M. and **Way, R.G.** (2015). Robust comparisons of climate simulations with observations using blended land air and ocean sea surface observations. *Geophysical Research Letters*, 42(15): 6526-6534. DOI: 10.1002/2015GL064888
- [14] **Way, R.G.**, Lewkowicz, A.G. and Bonnaventure, P.P. (2017). Development of moderate-resolution gridded air temperature and degree-day maps for the Labrador-Ungava region of northern Canada. *International Journal of Climatology*, 37(1): 493-508. DOI: 10.1002/joc.4721
- [15] **Way, R.G.** and Lewkowicz, A.G. (2016). Modelling the spatial distribution of permafrost in Labrador-Ungava using TTOP. *Canadian Journal of Earth Sciences*, 53(10): 1010-1028. DOI: 10.1139/cjes-2016-0034
- [16] **Way, R.G.**, Oliva, F. and Viau, A. (2017). Underestimated warming of northern Canada in the Berkeley Earth temperature product. *International Journal of Climatology*, 37(4): 1746-1757 DOI: 10.1002/joc.4808
- [17] Barrand, N.E., **Way, R.G.**, Bell, T., and Sharp, M.J. (2017). Recent changes in area and thickness of Torngat Mountain glaciers (northern Labrador, Canada). *The Cryosphere*, 11: 157-168. DOI: 10.5194/tc-11-157-2017

[18] Ladd, M., Viau, A.E., **Way, R.G.**, Gajewski, K. and Sawada, M.C. (2018). Variations in precipitation over North America during the past 2,000 years. *The Holocene*, 28(4): 667-675. DOI: 10.1177/0959683617735583

[19] **Way, R.G.** and Lewkowicz, A.G. (2018). Environmental controls on ground temperature and permafrost in Labrador, northeast Canada. *Permafrost and Periglacial Processes*, 29(2): 73-85. DOI: 10.1002/ppp.1972

[20] **Way, R.G.**, Lewkowicz, A.G. and Zhang, Y. (2018). Characteristics and fate of isolated permafrost patches in coastal Labrador, Canada. *The Cryosphere*, 12(8): 2667-2688. <https://doi.org/10.5194/tc-2017-271>.

[21] Anderson, D., Ford, J. and **Way, R.G.** (2018). The impacts of climate and social changes on Cloudberry (Bakeapple) picking: A case study from southern Labrador. *Human Ecology*, 46(6): 849-863.

[22] Lewkowicz, A.G. and **Way, R.G.** (2019). Extremes of summer climate trigger thousands of thermokarst landslides in a High Arctic environment. *Nature Communications*, 10: 1329. DOI: 10.1038/s41467-019-09314-7

[23] Obu, J., Westermann, S., Bartsch, A., Berdnikov, N., Christiansen, H.H., Dashtseren, A., Delaloye, R., Elberling, B., Etzelmüller, B., Kholodov, A., Khomutov, A., Kääh, A., Leibman, M.O., Lewkowicz, A.G., Panda, S.K., Romanovsky, V., **Way, R.G.**, Westergaard-Nielsen, A., Wu, T., Yamkin, J. and Zou, D. (2019). Northern Hemisphere permafrost map based on TTOP modelling for 2000-2016 at 1 km scale. *Earth-Science Reviews*, 193: 299-316.

[24] Haustein, K., Otto, F.E.L., Venema, V., Jacobs, P., Cowtan, K., Hausfather, Z., **Way, R.G.**, White, B., Subramanian, A. and Schurer, A.P. (2019). A limited role for unforced internal variability in 20th century warming. *Journal of Climate*, 32(16): 4893-4917.

[25] Obu, J., Westermann, S., Bartsch, A., Berdnikov, N., Christiansen, H.H., Dashtseren, A., Delaloye, R., Elberling, B., Etzelmüller, B., Kholodov, A., Khomutov, A., Kääh, A., Leibman, M.O., Lewkowicz, A.G., Panda, S.K., Romanovsky, V., **Way, R.G.**, Westergaard-Nielsen, A., Wu, T., Yamkin, J. and Zou, D. (2020). Reply to the comment: Northern Hemisphere permafrost extent: Drylands, glaciers and sea floor. *Earth-Science Reviews*.

[26] Schang, K., Trant, A., Bohnert, S., Closs, A., Humchitt, M., McIntosh, K., **Way, R.** and Wickham, S. (2020). Ecological research should consider Indigenous peoples and stewardship. FACETS.

* Voted Top Paper in *Environmental Research Letters* for 2013

** Featured in *Science* ('Climate Outsider Finds Missing Global Warming')

*** Highlighted in *Nature Climate Change* ('Lack of coverage')

Manuscript(s) in revision at refereed journals

Manuscript(s) under review at refereed journals

[1] Way, R.G. and Lapalme, C. Does Arctic greening warm or cool the ground surface? Assessing the ground thermal impacts of upright vegetation in northern environments. Submitted to *Environmental Research Letters*.

Full Manuscript(s) in preparation for submission to refereed journals¹

[1] Davis, E., Trant, A., Hermanutz, H., **Way, R.G.**, Lewkowicz, A., Siegwart Collier, L., Cuerrier, A. and Whitaker, D. A multidisciplinary study of vegetation-environment interactions in the low Arctic coastal mountains of Nunatsiavut, Labrador. To be submitted to *Biogeosciences*.

[2] Tutton, R. and **Way, R.G.** A new low-cost technique for remote field monitoring of snow characteristics under natural conditions. To be submitted to *The Cryosphere*.

[3] **Way, R.G.**, Lewkowicz, A.G and Wang, Y. Investigations of discontinuous permafrost in coastal areas near Nain, Labrador with DC electrical resistivity tomography. To be submitted to *Canadian Geotechnical Journal*.

¹ Publications in this section are manuscripts being edited before submission to refereed journals.

Edited book chapters and other refereed contribution(s)

[1] Brown, B.R., Lemay, M., Allard, M., Barrand, N.E., Barrette, C., Bégin, Y., Bell, T., Bernier, M., Bleau, S., Chau-mont, D., Dibike, Y., Frigon, A., Leblanc, P., Paquin, D., Sharp, M.J. and **Way, R.** (2012). Climate variability and change in the Canadian Eastern Subarctic IRIS region (Nunavik and Nunatsiavut). In Allard M. and Lemay M. (eds.). *Nunavik and Nunatsiavut: From science to policy. An Integrated Regional Impact Study (IRIS) of climate change and modernization*. ArcticNet, Quebec: Laval University. DOI: 10.13140/RG.2.1.3745.0323

[2] **Way, R.G.** and Lewkowicz, A.G. (2015). Investigations of discontinuous permafrost in coastal Labrador with DC electrical resistivity tomography. *Proceedings of GéoQuebec: 68th Canadian Geotechnical Conference and 7th Canadian Permafrost Conference*, Quebec City, Canada. DOI: 10.13140/RG.2.1.1647.8803

[3] Bonnaventure P.P., Smith S.L., Lamoureux S.F., **Way R.G.**, Ednie M., Bouchard F., Fortier D., Paquette M. and Godin E. (2018). Permafrost. In Bell T. and Brown T.M. (eds.) *From Science to Policy in the Eastern Canadian Arctic: An Integrated Regional Impact Study (IRIS) of Climate Change and Modernization*. ArcticNet: Québec City, Canada, 119–139.

Non-refereed contribution(s)

Technical reports

[1] Cowtan, K. and Way, R.G. (2013). Update to ‘Coverage bias in the HadCRUT4 temperature series and its impact on recent temperature trends’. Report no. 1. Temperature reconstruction by domain: preliminary analysis. 6 pp. DOI: 10.13140/RG.2.1.1844.4880

[2] Cowtan, K. and Way, R.G. (2014). Update to ‘Coverage bias in the HadCRUT4 temperature series and its impact on recent temperature trends’. Report no. 2. Temperature reconstructions by domain: version 2.0 temperature series. 9 pp. DOI: 10.13140/RG.2.1.4728.0727

[3] Cowtan, K. and Way, R.G. (2014). Update to 'Coverage bias in the HadCRUT4 temperature series and its impact on recent temperature trends'. Report no. 3. Hybrid temperature reconstructions by domain. 13 pp. DOI: 10.13140/RG.2.1.4990.2166

[4] Cowtan, K. and Way, R.G. (2014). Update to 'Coverage bias in the HadCRUT4 temperature series and its impact on recent temperature trends'. Report no. 4. Reconciling global temperature series. 27 pp. DOI: 10.13140/RG.2.1.4334.8564

[5] Lewkowicz, A.G. and **Way, R.G.** (2014). Overview report for Nunatsiavut Government on permafrost conditions in the Nain area. *Submitted to the Nunatsiavut Government*. 10 pp. DOI: 10.13140/RG.2.1.1910.0240

[6] Cowtan, K., Jacobs, P. and Way, R.G. (2015). Response to Gleisner et al (2015): 'Recent global warming hiatus dominated by low latitude temperature trends in surface and troposphere data'. Report no. 1. 9 pp. DOI: 10.13140/RG.2.1.2499.8483

[7] Way, R.G. (2015). Methodological discussion of Finnis and Bell (in press) 'An analysis of recent observed climate trends and variability in Labrador'. Report no. 1. 17 pp. DOI: 10.13140/RG.2.1.3482.8886

PRESENTATIONS TO SCHOLARLY AND OTHER GROUPS

Oral presentations (invited)

[1] **Way, R.G.*** and Viau, A.E. (2010). Causes of climate variability in the Labrador region of northeastern Canada. Department of Geography Speaker Series, University of Ottawa, Ottawa, Canada.

[2] **Way, R.G.*** and Bell, T. (2012). Torngat Mountains glacier change: Little Ice Age to present. Blue Box Seminar Series. Department of Geography, Memorial University of Newfoundland. St. John's, Canada.

[3] **Way, R.G.*** (2014). From glaciers to frozen ground: Labrador's changing climate. Labrador Institute Speaker Series. Goose Bay, Labrador, Canada.

[4] **Way, R.G.*** and Cowtan, K. (2015). Underestimated Arctic warming in global temperature records. Philip Langlois Speaker Series, Department of Geography, University of Ottawa. Ottawa, Canada.

[5] **Way, R.G.*** (2016). From glaciers to frozen ground: environmental change in Labrador. The Arctic Circle Speaker Series, Ottawa, Canada.

[6] **Way, R.G.*** (2018). Is a road to Labrador's north coast feasible? Combined Councils of Labrador 2018 meeting. Happy Valley-Goose Bay, Canada.

[7] **Way, R.G.*** (2018). Impacts of environmental change for indigenous coastal communities in Labrador. Canadian Meteorological and Oceanographic Society 2018 meeting, Halifax, Canada.

Oral presentations (scholarly)

- [1] **Way, R.*** and Viau, A. (2010). Causes of Climate Variability in the Labrador Region of Northern Canada. Atlantic Division of the Canadian Association of Geographers Conference. St.John's, Canada.
- [2] Sharp, M.J.*, Barrand, N.E., Bell, T., **Way, R.**, Burgess, D., Cogley, J.G., Gardner, A.S. (2012). Glacier change in northern Canada from the IGY to the IPY. From Knowledge to Action – International Polar Year Conference 2012. Montreal, Canada.
- [3] **Way, R.G.*** and Cowtan, K. (2013). Underestimated Arctic Warming in the Met Office (UK) and NOAA (US) Global Temperature Products. ArcticNet Annual Science Meeting, Halifax, Canada.
- [4] **Way, R.G.*** and Lewkowicz, A.G. (2014). Field and modelling investigations of permafrost conditions in the Labrador region of northeastern Canada. ArcticNet Annual Scientific Meeting. Ottawa, Canada.
- [5] Bonnaventure P.P.*, Lewkowicz, A.G. and **Way, R.G.** (2014). Sensitivity of permafrost models to projected changes in continentality, Yukon, Canada. ArcticNet Annual Scientific Meeting. Ottawa, Canada.
- [6] Cowtan, K.* and **Way, R.** (2014). Biases in the instrumental temperature record: the policy and communications context. American Geophysical Union Fall Meeting, San Francisco, United States of America. Oral Presentation.
- [7] **Way, R.G.***, Lewkowicz, A.G. and Bonnaventure, P.P. (2015). Creating high-resolution spatially-distributed air temperature maps for Labrador. Ottawa-Carleton Northern Research Symposium, Ottawa, Canada.
- [8] **Way, R.G.*** and Lewkowicz, A.G. (2015). Investigations of discontinuous permafrost in coastal Labrador with DC electrical resistivity tomography. GéoQuebec: 68th Canadian Geotechnical Conference and 7th Canadian Permafrost Conference, Quebec City, Canada.
- [9] **Way, R.G.*** and Lewkowicz, A. (2015). A new map of permafrost distribution in the Labrador-Ungava region of northeastern Canada. Canadian Association of Geographers Ontario Division Annual Meeting, Ottawa, Canada.
- [10] Jacobs, P.*, Cowtan, K., Hausfather, Z., Hawkins, E., Mann, M.E., Miller, S.K., Steinman, B., **Way, R.G.** and Stolpe, M. (2015). Robust comparisons of climate simulations with observations using blended land air and ocean sea surface observations. American Geophysical Union Fall Meeting, San Francisco, United States of America.
- [11] **Way, R.G.*** and Lewkowicz, A. (2016). Field and model-based characterization of permafrost conditions in mountainous terrain in western Labrador. Tenth International Conference on Permafrost, Potsdam, Germany.
- [12] **Way, R.G.*** and Lewkowicz, A.G. (2016). Spatial variability in permafrost conditions in

Subarctic and Arctic Labrador. ArcticNet Annual Science Meeting. Winnipeg, Manitoba, Canada. ABS359.

[13] Hermanutz, L., Brown, C., Cuerrier, A., Siegwart Collier, L. and **Way, R.G.*** (2017). What's happening in the forest and tundra in Labrador? Labrador Research Forum. Sheshatshiu/Happy Valley-Goose Bay/North West River, Newfoundland and Labrador, Canada.

[14] Hermanutz, L.*, Siegwart Collier, L. and **Way, R.G.** (2017). Are Coastal Mountains responding to climate change differently? Canadian Society for Ecology & Evolution Meeting. Victoria, British Columbia, Canada.

[15] **Way, R.G.*** and Lewkowicz, A.G. (2017). Permafrost model sensitivity to input snow datasets in Labrador. 74th Annual Eastern Snow Conference. Ottawa, Ontario, Canada.

[16] Brown, R.*, Barrette, C. and **Way, R.G.** (2017). Climate information for Nunavik and Nunatsiavut. Arctic Change 2017, Québec City, QC, Canada.

[17] **Way, R.G.***, Lewkowicz, A.G. and Zhang, Y. (2017). Characteristics and evolution of coastal peatland permafrost in southeastern Labrador, Canada. Arctic Change 2017, Québec City, QC, Canada.

[18] Lewkowicz, A.G.*, **Way, R.G.**, Hermanutz, L., Trant, A., Siegwart Collier, L. and Whitaker, D. (2017). Interactions between shrubs and permafrost in the Torngat Mountains, northern Labrador, Canada. American Geophysical Union Fall Meeting, New Orleans, United States of America.

[19] Bonnaventure, P.P.*, Lewkowicz, A.G. and **Way, R.G.** (2018). Improved sensitivity analysis of permafrost models to projected changes in continentality, Yukon, Canada. 5th European Conference on Permafrost, Chamonix, France.

[20] **Way, R.G.*** and Lewkowicz, A.G. (2018). Environmental controls on ground temperatures in Labrador, northeast Canada. 5th European Conference on Permafrost, Chamonix, France.

[21] Trant, A.*, **Way, R.G.**, Hermanutz, L., Lewkowicz, A.G., Siegwart Collier, L., Lapalme, C. and Whitaker D. (2018). From shrubs to permafrost in the Torngat Mountains. '*Mountains in Transition*' symposium at the Canadian Society for Ecology and Evolution, Guelph, Canada.

[22] Barrette, C.*, Brown, R. and **Way, R.G.** (2018). Updated climate information: Nunavik and Nunatsiavut IRIS region. ArcticNet Annual Science Meeting 2018, Ottawa, Ontario, Canada.

[23] **Way, R.G.***, Hermanutz, L., Lewkowicz, A., Trant, A. and Whitaker, D. (2018). Assessing permafrost-shrub interactions in the Torngat Mountains National Park, northern Labrador. ArcticNet Annual Science Meeting 2018, Ottawa, Ontario, Canada.

[24] Trant, A.*, **Way, R.G.** and Hermanutz, L. (2019). People, Plants, and Snow across Nunatsiavut and NunatuKavut. Labrador Research Forum, Happy Valley-Goose Bay/North West River/Sheshatshiu, Newfoundland and Labrador, Canada.

[24] Wang, Y.*, Lewkowicz, A., **Way, R.G.** and Hermanutz, L. (2019). Frost, fire and flora: impacts of surface change on discontinuous permafrost near Nain and Postville, Nunatsiavut. Labrador Research Forum, Happy Valley-Goose Bay/North West River/Sheshatshiu, Newfoundland and Labrador, Canada.

[26] **Way, R.G.*** (2019). New coastal Labrador climate and weather monitoring program. Labrador Research Forum, Happy Valley-Goose Bay/North West River/Sheshatshiu, Newfoundland and Labrador, Canada.

[27] Wang, Y.*, Lewkowicz, A., **Way, R.G.** and Hermanutz, L. (2019). Trajectories of frozen ground following forest fire in Nunatsiavut, NL. ArcticNet Annual Science Meeting 2019, Halifax, Nova Scotia, Canada.

[28] **Way, R.G.*** and Tutton, R. (2019). Enhanced climate and weather monitoring in Nunatsiavut and NunatuKavut. ArcticNet Annual Science Meeting 2019, Halifax, Nova Scotia, Canada.

[29] Tutton, R.* and **Way, R.G.** (2019). Remote multi-variable monitoring of annual snow depth. ArcticNet Annual Science Meeting 2019, Halifax, Nova Scotia, Canada.

Poster Presentations (scholarly)

[1] Schlichting, L., **Way, R.**, Nuth, C., Kääh, A. (2010). Abstract No 1755. International Polar Year Conference. Oslo, Norway.

[2] **Way, R.** and Schlichting, L. (2010). Testing and correcting a biased digital elevation model for improved glacier volume change estimation in southern Norway. Atlantic Division of the Canadian Association of Geographers Conference. St-John's, Canada.

[3] **Way, R.**, Bell, T., Sharp, M.J. (2010). Reconstructing late Holocene alpine glacier dynamics in the Torngat Mountains, northern Labrador. ArcticNet seventh Annual Scientific Meeting. Ottawa, Canada.

[4] Cook, J., Nuccitelli, D., Green, S.A., Richardson, M., Winkler, B., Painting, R., **Way, R.** and Jacobs, P. (2011). Quantifying the consensus on anthropogenic global warming in the scientific literature. 2011 American Geophysical Union Fall Meeting. San Francisco, USA.

[5] **Way, R.**, Bell, T., Sharp, M.J. (2012). Significant ice loss from Torngat Mountain Glaciers since the Little Ice Age. From Knowledge to Action – International Polar Year Conference 2012. Montreal, Canada.

[6] Bell, T., **Way, R.**, Chadbourn, J., Melanson, A., Barrand, N.E., Sharp, M.J., Simpson, A. (2012). Fifty Years of Glacier Change in the Torngat Mountains, Labrador, Canada. From Knowledge to Action – International Polar Year Conference 2012. Montreal, Canada.

[7] Cowtan, K. and **Way, R.** (2013). Coverage bias in the HadCRUT4 temperature series. Characterising surface temperatures in data-sparse and extreme regions – EarthTemp Workshop. Copenhagen, Denmark.

- [8] **Way, R.G.** (2014). Recent decline of Grinnell and Terra Nivea ice caps, Baffin Island, Canada. Workshop on the Dynamics and Mass Budget of Arctic Glaciers & the IASC Network on Arctic Glaciology Annual Meeting, Ottawa, Canada.
- [9] **Way, R.G.** and Lewkowicz, A.G. (2014). The Labrador Permafrost Project. Ottawa-Carleton Student Northern Research Symposium, Ottawa, Canada.
- [10] **Way, R.G.** and Lewkowicz, A.G. (2014). Modelling the distribution of permafrost in the Labrador region of northeastern Canada. 4th European Conference on Permafrost, Evora, Portugal.
- [11] **Way, R.G.** and Viau, A.E. (2014). Evaluating recent air temperature variability in the Labrador region of northeastern Canada. Arctic Change 2014. Ottawa, Canada.
- [12] **Way, R.G.**, Hermanutz, L., Whitaker, D., Charron, L., Lewkowicz, A.G. and Lapalme, C.M. (2016). Shrub and permafrost interactions in coastal low-Arctic mountains. ArcticNet Annual Science Meeting. Winnipeg, Manitoba, Canada. Poster presentation. ABS361.
- [13] Hermanutz, L.*, Siegwart Collier, L., **Way, R.G.**, Trant, A. and Lewkowicz, A.G. (2017). Are northern coastal mountains responding to climate change differently? Arctic Change 2017, Québec City, QC, Canada.
- [14] Lapalme, C.M.*, **Way, R.G.**, Lewkowicz, A.G., Hermanutz, L., Siegwart Collier, L., Trant, A., Whitaker, D. and Bonnaventure, P.P. (2018). Investigating permafrost-shrub interactions in Torngat Mountains National Park, northeast Canada. 5th European Conference on Permafrost, Charmonix, France.
- [15] Wang, Y.*, Lewkowicz, A., Hermanutz, L. and **Way, R.G.** (2018). Frost, Fire, and Flora in Nunatsiavut, Labrador. ArcticNet Annual Science Meeting 2018, Ottawa, Ontario, Canada. Poster Presentation.
- [16] Davis, E*, Trant, A., Hermanutz, L., Siegwart Collier, L. and **Way, R.G.** (2019). Recent impacts of climate change on vegetation dynamics in the Torngat Mountains of northern Labrador. ArcticNet Annual Science Meeting 2019, Halifax, Nova Scotia, Canada.
- [17] Trant, A.*, **Way, R.G.**, Davis, E., Hermanutz, L., Larking, T., Lauriault, P., Tutton, R. and Wang, Y. (2019). The changing landscapes of Labrador. ArcticNet Annual Science Meeting 2019, Halifax, Nova Scotia, Canada.
- [18] Larking, T.*, Trant, A., Hermanutz, L., **Way, R.G.** and Wang, Y. (2019). Cross-scale approach for understanding climate change impacts on radial growth and productivity of dominant shrub species in Labrador, Canada. ArcticNet Annual Science Meeting 2019, Halifax, Nova Scotia, Canada.

ACADEMIC AWARDS AND DISTINCTIONS

Year	Award	Amount
2017-2018	W. Garfield Weston Postdoctoral Fellowship (<i>accepted</i>)	\$50,000
2017-2019	Postdoctoral Fellowship, Natural Sciences and Engineering Research Council of Canada (<i>declined</i>)	\$90,000
2016-2017	W. Garfield Weston Award for Northern Research	\$50,000
2016	James Bourque Scholarship for Northern Research	\$ 5,000
2015-2016	Fellow, Cryosphere Working Group, International Arctic Science Committee	
2011-2016	Northern Scientific Training Program, Canadian Polar Commission	\$ 18,000
2014-2015	Northern Resident Scholarship, Association of Canadian Universities for Northern Studies	\$ 10,000
2014-2017	Canada Graduate Scholarship, Natural Sciences and Engineering Research Council of Canada	\$ 105,000
2014	High North Scholarship, University Centre in Svalbard	\$ 5,400
2013-2017	Excellence Scholarship, University of Ottawa	\$ 36,000
2013	Best article of 2013, Environmental Research Letters ('Quantifying the consensus on anthropogenic global warming in the scientific literature')	
2013	Fellow of the School of Graduate Studies, Memorial University of Newfoundland	
2011-2012	W. Garfield Weston Award for Northern Research, Association of Canadian Universities for Northern Studies	\$ 15,000
2010	Featured in Canadian Geographic ('The cryosphere kid')	
2007-2008	Undergraduate entrance scholarship, University of Ottawa.	\$ 3,000

RESEARCH FUNDING SECURED

Year	Funding Source and Project Title	Amount
2020-2025	Northern Research Supplement, Natural Sciences and Engineering Research Council of Canada Discovery Grants Program - Susceptibility of peatland permafrost in coastal Labrador to future environmental change	\$75,000
2020-2025	Natural Sciences and Engineering Research Council of Canada Discovery Grants Program - Susceptibility of peatland permafrost in coastal Labrador to future environmental change	\$125,000
2019-2022	Understanding and predicting future climate-vegetation-cryosphere interactions in Nunatsiavut, Nunavik and NunatuKavut (Principal Investigator)	\$270,239
2018-2019	W. Garfield Weston Foundation, Parks Canada (<i>in-kind</i>) and the Nunatsiavut Government (Principal Investigator).	\$34,762
2018-2021	Indigenous Community-Based Climate Monitoring Program, Indigenous and Northern Affairs Canada – Coastal and Labrador climate and weather monitoring program (Principal Investigator)	\$305,894
2017-2019	Polar Knowledge Canada – Project title: <i>Food, fire and ice: Integrating local knowledge, plant response, and cryosphere dynamics to predict future food and fuel</i> (Co-applicant)	\$247,069
2017-2018	W. Garfield Weston Foundation, Parks Canada (<i>in-kind</i>) and the Nunatsiavut Government (Co-Principal Investigator).	\$39,025
2016-2017	W. Garfield Weston Foundation, Parks Canada (<i>in-kind</i>) and the Nunatsiavut Government (Co-Principal Investigator).	\$26,000

SCHOLARLY AND PROFESSIONAL ACTIVITIES

Associations and memberships

2013-Present	Permafrost Young Researchers Network
2010-Present	Association of Polar Early Career Scientists
2010-2014	International Glaciological Society

Review Activity

Reviewer for Scholarly Journals –

2020	Reviewer for the journal <i>Arctic Science</i>
2019	Reviewer for the journal <i>Nature Communications</i>
2018	Reviewer for the journal <i>Journal of Geophysical Research: Earth Surface</i>
2018	Reviewer for the journal <i>Remote Sensing Letters</i>
2018	Reviewer for the journal <i>Journal of Visualized Experiments</i>
2017/2020	Reviewer for the journal <i>Permafrost and Periglacial Processes</i>
2017	Reviewer for the journal <i>Nature Climate Change</i>
2016/2017	Reviewer for the journal <i>Geografiska Annaler: Series A, Physical Geography</i>
2016	Reviewer for the journal <i>International Journal of Climatology</i>
2015/2016/2017	Reviewer for the journal <i>The Cryosphere</i>
2014	Reviewer for the journal <i>International Journal of Remote Sensing</i>
2014	Reviewer for the journal <i>Computers and Geosciences</i>
2013	Reviewer for the journal <i>Geomorphology</i>

Reviewer for Funding Agencies –

2020	External Reviewer for <i>NSERC Discovery Grant Program</i>
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Other review activities –

2020	External Reviewer for <i>NSERC Discovery Grant</i>
2020	Review Committee Member for <i>Polar Continental Shelf Program</i>
2020	Chapter Peer Reviewer for the <i>Canadian National Climate Assessment</i>

OTHER RELEVANT ACTIVITIES AND SKILLS

I have completed a variety of courses relevant for field research activities including the student Arctic safety course at the University Centre in Svalbard. I hold an active pleasure craft operator card and an active emergency field aid certification. I also have an active firearms acquisition certificate and possession and acquisition licence. I have previously completed a wilderness first aid and safety course and the trappers education course. I am an avid skier, snowshoer and snowmobiler, and have extensive camping experience in remote environments. I have conducted field work or course activities in a variety of harsh environments including the Antarctic Peninsula, northern British Columbia, Iceland, southern Labrador, southern Norway, Patagonia, Svalbard, the Torngat Mountains, and the southern Yukon. I am also a contributing writer to the '*Scientific Guide to Global Warming Skepticism*' (downloaded 800,000 times). Author at the science communication website Skeptical Science (~20 articles) looking at various issues including the Antarctic and Greenland Ice Sheets, Arctic temperature changes, natural and anthropogenic climate variability, climate change impacts on Inuit, recent glacier changes and several other topics. I am a contributor to both the IRIS-2 and IRIS-4 ArcticNet working groups.

AREAS OF TEACHING EXPERTISE

Please contact for teaching statement and teaching dossier

CURRENT RESEARCH INTERESTS

Please contact for statement of research interests

C.V. current to May 25, 2020