

S. JEFF BIRCHALL, PhD, RPP, MCIP

Associate Professor - Local-scale Climate Change Adaptation/ Resilience

Director, Climate Adaptation and Resilience Lab

Associate Director, School of Urban and Regional Planning

Department of Earth and Atmospheric Sciences

University of Alberta

1-26 Earth Sciences Building, Edmonton AB, Canada, T6G 2E3

jeff.birchall@ualberta.ca (work)

[Google Scholar](#); [LinkedIn](#)

Lead, Thematic Network on Local-scale Planning, Climate Change and Resilience

University of the Arctic (UArctic)

Section Editor (Adaptation), **Editorial Board**, *PLOS Climate* (journal)

Editorial Advisory Board, *Regional Environmental Change* (journal)

Editorial Board, *Arctic Resilience* (Nord U., Harvard, U) (book)

EDUCATION

| Degree | Department | University | Year |
|--------|--|---|------|
| Ph.D. | College of Business and Economics (sustainability, public sector, climate change) | University of Canterbury, Christchurch, New Zealand | 2013 |
| M.E.S. | Environmental Studies (climate change policy) | York University, Toronto, Canada | 2005 |
| B.E.S. | Environmental Studies (environmental impacts, urban planning/ governance) | University of Northern British Columbia, Prince George, Canada | 2003 |
| B.A. | Geography (human) | McMaster University, Hamilton, Canada | 2001 |

ACADEMIC AND PROFESSIONAL APPOINTMENTS

| Rank/Position | Department/ Unit | Institution | Year |
|-----------------------------|--|--|-----------|
| Associate Professor | Earth and Atmospheric Sciences | University of Alberta, Edmonton, Canada | 2021- |
| Associate Director | School of Urban and Regional Planning | University of Alberta, Edmonton, Canada | 2021- |
| Director | Climate Adaptation and Resilience Lab | University of Alberta, Edmonton, Canada | 2015- |
| Assistant Professor | Earth and Atmospheric Sciences | University of Alberta, Edmonton, Canada | 2015-2021 |
| Lead Researcher | Network for Business Sustainability (Richard Ivey School of Business) | Western University, London, Canada | 2014-2015 |
| Researcher (p/t) | School of Environment Enterprise & Development | University of Waterloo, Waterloo, Canada | 2013-2014 |
| Marsden Research Scholar | College of Business and Economics | University of Canterbury, Christchurch, New Zealand | 2009-2013 |
| Faculty Lecturer (p/t) | Management | University of Canterbury, Christchurch, New Zealand | 2009-2011 |
| Instructor (p/t) | School of Urban and Regional Planning | Toronto Metropolitan University, Toronto, Canada | 2008-2019 |
| Manager | Climate Change (Community Transformation) | Toronto Region Conservation Authority, Toronto, Canada | 2006-2009 |
| Program Officer | Environmental Bill of Rights Office | Ontario Ministry of the Environment, Toronto, Canada | 2005-2006 |
| Tactics Officer | Prince George Fire Centre | British Columbia Ministry of Forests, Prince George, Canada | 2002-2003 |

PUBLICATIONS

(NOTE: underline - graduate student under my supervision)

Life-time summary (count) according to the following categories:

| | Published/ In Press | Revisions Requested | In Review | Total |
|--|------------------------|------------------------|-----------|-------|
| • Papers in refereed journals | 44 | 3 | 4 | 51 |
| • Chapters in refereed/edited works and science series | 18 | | | 18 |
| • Professional reports/non-refereed journals | 11 | | | 11 |
| • Scientific blogs (edited) | 2 | | | 2 |

Refereed Journals

Published/ In Press:

- 44 Rose, D., Birchall, SJ. (2025). Investigating the extent and quality of health-focused climate adaptation planning: Insights from Western Canadian communities. *Environmental Science & Policy*. <https://doi.org/10.1016/j.envsci.2025.104192>.
- 43 Baran, N., Birchall, SJ. (2025). The influence of ecosystem service values on green infrastructure and urban development: Insights from 5 Canadian municipalities. *Journal of Environmental Policy and Planning*. <https://doi.org/10.1080/1523908X.2025.2528643>.
- 42 **Birchall, SJ., Bonnett, N., Rose, D., Gilchrist, E.** (2025). Factors contributing to climate adaptation lag in practice: Insights from local and territorial government interactions. *Environmental Science & Policy*. <https://doi.org/10.1016/j.envsci.2025.104097>.
- 41 Kehler, S., Birchall, SJ. (2025). Why history matters to planning: Climate change, colonialism & maladaptation. *Environmental Science & Policy*. <https://doi.org/10.1016/j.envsci.2025.104076>.
- 40 **Birchall, SJ., Kehler, S., Weissenberger, S.** (2025). "Sometimes, I just want to scream": Institutional barriers limiting adaptive capacity and resilience to extreme events. *Global Environmental Change*. <https://doi.org/10.1016/j.gloenvcha.2025.102967>.
- 39 Bonnett, N., Birchall, SJ. (2025). Local planning for climate induced relocation: A systematic review. *International Journal of Disaster Risk Reduction*. <https://doi.org/10.1016/j.ijdrr.2024.105094>.
- 38 Filimonova, N., **Birchall, SJ.** (2024). Sustainable municipal solid waste management: A comparative analysis of enablers and barriers to advance governance in the Arctic. *Journal of Environmental Management*. <https://doi.org/10.1016/j.jenvman.2024.123111>.
- 37 Rose, D., Birchall, SJ. (2024). Bolstering community resilience through health-focused climate change adaptation: Moving from talk to action in Western Canadian communities. *Climate Policy*. <https://doi.org/10.1080/14693062.2024.2395920>.
- 36 Weissenberger, S., **Birchall, SJ.** (2024). Regional climate change adaptation planning in Canada: Actors and their articulation. *Canadian Geographies*. <https://doi.org/10.1111/cag.12960>.
- 35 **Birchall, SJ., MacDonald, S., Bonnett, N.** (2024). Climate change adaptation planning: Breaking down barriers through comprehensive educational frameworks. *Journal of Planning Education and Research*. <https://doi.org/10.1177/0739456X241242059>.
- 34 Zazula, N., Birchall, SJ. (2024). Urban resilience through ecosystem services in Edmonton, Canada: An assessment of gaps and recommendations. *Urban Ecosystems*. <https://doi.org/10.1007/s11252-024-01561-x>.
- 33 Muffly, J., Birchall, SJ. (2023). Key Elements of defensible space land use bylaw provisions in wildland-urban interface municipalities of Alberta, Canada. *International Journal of Disaster Risk Reduction*. <https://doi.org/10.1016/j.ijdrr.2023.103988>.
- 32 Rose, D., Birchall, SJ. (2023). Strengthening health-focused climate adaptation in Canada: Barriers and interventions. *Canadian Geographies*. <https://doi.org/10.1111/cag.12894>.
- 31 **Birchall, SJ., Kehler, S.** (2023). Denial and discretion as a governance process: How actor perceptions of risk and responsibility hinder adaptation to climate change. *Environmental Science & Policy*. <https://doi.org/10.1016/j.envsci.2023.05.017>.

- 30 **Kehler, S. & Birchall, S.J.** (2023). Climate change adaptation: How short-term political priorities trample public well-being. *Environmental Science & Policy*. <https://doi.org/10.1016/j.envsci.2023.05.012>.
- 29 **Birchall, S.J., Bonnett, N., Kehler, S.** (2023). The influence of governance structure on local resilience: Enabling and constraining factors for climate change adaptation in practice. *Urban Climate*. <https://doi.org/10.1016/j.uclim.2022.101348>.
- 28 **Slater, T., Birchall, S.J.** (2022). Growing resilient: The potential of urban agriculture for increasing food security and improving earthquake recovery. *Cities*. <https://doi.org/10.1016/j.cities.2022.103930>.
- 27 **Birchall, S.J., Kehler, S., Bonnett, N.** (2022). Fostering resilience and adapting to climate change in the Canadian North: Implications for infrastructure in the proposed Canadian Northern Corridor. *School of Public Policy Publications, Canadian Northern Corridor Special Series*, University of Calgary. <https://doi.org/10.11575/sppp.v15i1.74463>.
- 26 Van Asshe, K., **Birchall, S.J.**, Gruezmacher, M. (2022). Arctic and northern community governance: The need for local planning and design as resilience strategy. *Land Use Policy*. <https://doi.org/10.1016/j.landusepol.2022.106062>.
- 25 **Bonnett, N., Birchall, S.J.** (2022). The influence of regional strategic policy on municipal climate adaptation planning. *Regional Studies*. <https://doi.org/10.1080/00343404.2022.2049224>.
- 24 **Birchall, S.J., MacDonald, S., Baran, N.** (2022). An assessment of systems, agents, and institutions in building community resilience to climate change: A case study of Charlottetown, Canada. *Urban Climate*. <https://doi.org/10.1016/j.uclim.2021.101062>.
- 23 **Kehler, S. Birchall, S.J.** (2021). Social vulnerability and climate change adaptation: The critical importance of moving beyond technocratic policy approaches. *Environmental Science & Policy*. <https://doi.org/10.1016/j.envsci.2021.07.025>.
- 22 Fitton, J., Addo, K.A., Jayson-Quashigah, P-N., Nagy, G., Gutierrez, O., Panario, D., Carro, I., Seijo, L., Segura, C., Verocai, J.E., Luoma, S., Klien, J., Zhang, T-T, **Birchall, S.J.**, Stempel, P. (2021). Challenges to climate change adaptation in coastal small towns: Examples from Ghana, Uruguay, Finland, Denmark, and Alaska. *Ocean and Coastal Management, Coastal Small Towns Special Issue*. <https://doi.org/10.1016/j.ocecoaman.2021.105787>.
- 21 **Birchall, S.J., MacDonald, S., Slater, T.** (2021). Anticipatory Planning: Finding balance in climate change adaptation governance. *Urban Climate*. <https://doi.org/10.1016/j.uclim.2021.100859>.
- 20 **Halabut, R., Birchall, S.J.** (2021). Wildfire risk and response in Jasper National Park, Alberta: Application of an adaptation readiness framework. *Canadian Geographer*. <http://doi.org/10.1111/cag.12702>.
- 19 **McDonald-Yale, E., Birchall, S.J.** (2021). The built environment in a winter climate: Improving university campus design for student wellbeing. *Landscape Research*. <https://doi.org/10.1080/01426397.2021.1881768>.
- 18 **Birchall, S.J., Bonnett, N.** (2021). Climate change adaptation policy and planning: The role of agents, institutions and systems. *Cities*. <https://doi.org/10.1016/j.cities.2020.103001>.
- 17 **Bonnett, N., Birchall, S.J.** (2020). Coastal communities in the Circumpolar North and the need for sustainable climate adaptation approaches. *Marine Policy*. <https://doi.org/10.1016/j.marpol.2020.104175>.
- 16 van Asshe, K., Duineveld, M., **Birchall, S.J.**, Deacon, L., Beunen, R., Gruezmacher, M., Boezeman, D. (2020). Resilience, reinvention and transition during and after quarantine. *Space and Culture*. <https://doi.org/10.1177%2F1206331220938628>.
- 15 **Birchall, S.J.** (2020). Coastal climate adaptation planning and evolutionary governance: Insights from Homer, Alaska. *Marine Policy, Land and Sea Interaction Special Issue*. <https://doi.org/10.1016/j.marpol.2018.12.029>.
- 14 **Birchall, S.J., Bonnett, N.** (2020). Thinning sea ice and thawing permafrost: Climate change adaptation planning in Nome, Alaska. *Environmental Hazards*. <https://doi.org/10.1080/17477891.2019.1637331>.
- 13 **MacDonald, S., Birchall, S.J.** (2019). Climate change resilience in the Canadian Arctic: The need for collaboration in the face of a changing landscape. *Canadian Geographer*. <https://doi.org/10.1111/cag.12591>.
- 12 **Birchall, S.J., Bonnett, N.** (2019). Local-scale climate change stressors and policy response: The case of Homer, Alaska. *Environmental Planning and Management*. <https://doi.org/10.1080/09640568.2018.1537975>.
- 11 French, EL, **Birchall, S.J.**, Landman, K, Brown, R. (2019). Designing open space for seismic resilience. *International Journal of Disaster Risk Reduction*. <https://doi.org/10.1016/j.ijdrr.2018.11.001>.
- 10 **Birchall, S.J.**, Murphy, M, Milne, M. (2017). An Investigation into the early stages of New Zealand's Voluntary Carbon Market. *Carbon Management*. <http://dx.doi.org/10.1080/17583004.2017.1418596>.

- 9 **Birchall, SJ.** (2017). Structural challenges that contributed to the decline of the Communities for Climate Protection program. *Local Environment*. <https://doi.org/10.1080/13549839.2014.945404>.
- 8 **Birchall, SJ,** Murphy, M, Milne, M. (2016). Mixed methods research: A comprehensive approach for study into the New Zealand voluntary carbon market. *Qualitative Report*. <https://doi.org/10.46743/2160-3715/2016.2398>.
- 7 **Birchall, SJ,** Murphy, M, Milne, M. (2015). Evolution of the New Zealand voluntary carbon market: An analysis of CarboNZero client disclosures. *Social and Environmental Accountability*. <https://doi.org/10.1080/0969160X.2015.1061444>.
- 6 **Birchall, SJ.** (2014). Qualitative inquiry as a method to extract personal experiences: Approach to research into organizational climate change mitigation. *Qualitative Report*. <https://doi.org/10.46743/2160-3715/2014.1003>.
- 5 **Birchall, SJ.** (2014). New Zealand's abandonment of the Carbon Neutral Public Service program. *Climate Policy*. <https://doi.org/10.1080/14693062.2014.877224>.
- 4 **Birchall, SJ.** (2014). Termination theory and national climate change mitigation programs. *Review of Policy Research*. <https://doi.org/10.1111/ropr.12056>.
- 3 **Birchall, SJ.** (2014). Carbon management in New Zealand local government: Co-benefits of action and organizational resolve in the absence of government support. *Australasian Journal of Environmental Management*. <https://doi.org/10.1080/14486563.2013.878258>.
- 2 **Birchall, SJ,** Ball, A, Mason, I, Milne, M. (2013). Managing carbon in times of political change: The rise and fall of the New Zealand Carbon Neutral Public Service program. *Australasian Journal of Environmental Management*. <https://doi.org/10.1080/14486563.2012.720455>.
- 1 **Birchall, SJ.** (2006). Canadian sovereignty: Climate change and politics in the Arctic. *Arctic*. <https://doi.org/10.14430/arctic334>.

Revisions Requested:

- 3 Sandberg, L., Bonnett, N., **Birchall, SJ.** Adapting to environmental hazards in Norway: Confusion over legal responsibility results in stalled action and greater risk of disaster. *International Journal of Disaster Risk Reduction*.
- 2 Gauthier, M., **Birchall, SJ.**, Hirshberg, D., Bonnett, N., Rose, D., Russell-Loewen, D., Sinisalo, A., Specia, A., Topkok, SA. Transforming education in the Arctic: Co-creation, decolonization and participatory approaches. *Arctic*.
- 1 **Birchall, SJ,** Villeneuve, K., Rose, D., Baran, N., Adams, S. Exploring the modifying effects of adaptive capacity on resilience to climate change across 4 coastal cities in British Columbia, Canada. *Cities*.

In Review:

- 4 Rose, D., **Birchall, SJ.** Exploring climate change and health in the rural context: Vulnerability, capacity and outlook. *Journal of Rural Studies*.
- 3 Filimonova, N., **Birchall, SJ.** Conceptualizing the Interplay Between Remoteness and Modes of Governing Solid Waste in Arctic Cities. *Environmental Science & Policy*.
- 2 Mickelson, K., SJ. Birchall. It's Better to be Beautiful: The prioritization of aesthetics and comfort in neighborhood level crime prevention design. *Cities*.
- 1 **Birchall, SJ.**, Goulet, R., Kehler, S., Weissenberger, S. Climate change adaptation and emergency management: The influence of uneven devolution on community resilience. *Cities*.

Refereed Edited Works/Science Series/Chapters Published:

- 18 **Birchall, SJ.,** Koleyak, D. (2023). Climate change adaptation planning and resilience. In K. Van Assche, R. Beunen and M. Duineveld (Eds.), *Elgar Encyclopedia in Urban and Regional Planning and Design*. Edward Elgar. 63-66. <https://doi.org/10.4337/9781800889002.000026>.
- 17 Kehler, S., Birchall, SJ. (2023). Adaptation planning: An interdisciplinary approach to climate change risk reduction. *Canadian Meteorological and Oceanographic Society*: <https://bulletin.cmos.ca/adaptation-planning-an-interdisciplinary-approach-to-climate-change-risk-reduction/>.

- 16 **Birchall, S.J.**, Antonakis, V. (2021). Conducting effective and respectful in-depth, semi-structured interviews. *CONVERGE Extreme Events Research Check Sheets Series*. Natural Hazards Center, University of Colorado Boulder. Boulder. <https://doi.org/10.17603/ds2-s5df-b284>.
- 15 **Birchall, S.J.**, Antonakis, V. (2021). In-depth, semi-structured interviews: A typology of interview questions. *CONVERGE Extreme Events Research Check Sheets Series*. Natural Hazards Center, University of Colorado - Boulder. Boulder. <https://doi.org/10.17603/ds2-81nz-mq71>.
- 14 **Bonnett, N., Birchall, S.J.** (2021). Safely conducting quick response research: Tips for graduate students and supervisors. *CONVERGE Extreme Events Research Check Sheets Series*. Natural Hazards Center, University of Colorado - Boulder. Boulder. <https://doi.org/10.17603/ds2-7vbg-3f39>.
- 13 **Birchall, S.J.**, MacDonald, S. (2019). Climate change impacts and resilience: An Arctic case study. In WL. Filho, PG. Özuyar, P.J. Pace, U. Azeiteiro and L. Brandli (Eds.), *Climate Action, Encyclopedia of the UN Sustainable Development Goals*. London: Springer. https://doi.org/10.1007/978-3-319-71063-1_79-1.
- 12 **Macdonald, D., Birchall, S.J.** (2019). Immediate climate vulnerabilities: Climate change and planning policy in northern communities. In WL. Filho, PG. Özuyar, P.J. Pace, U. Azeiteiro and L. Brandli (Eds.), *Climate Action, Encyclopedia of the UN Sustainable Development Goals*. London: Springer. https://doi.org/10.1007/978-3-319-71063-1_85-1.
- 11 Singh, A, **Birchall, S.J.** (2019). Financial market services: Climate finance and climate change adaptation. In WL. Filho, PG. Özuyar, P.J. Pace, U. Azeiteiro and L. Brandli (Eds.), *Climate Action, Encyclopedia of the UN Sustainable Development Goals*. London: Springer. https://doi.org/10.1007/978-3-319-71063-1_84-1.
- 10 **Antonakis, V., Birchall, S.J.** (2019). Community planning challenges: Climate change impacts on cultural heritage. In WL. Filho, PG. Özuyar, P.J. Pace, U. Azeiteiro and L. Brandli (Eds.), *Climate Action, Encyclopedia of the UN Sustainable Development Goals*. London: Springer. https://doi.org/10.1007/978-3-319-71063-1_82-1.
- 9 **Heang, C., Birchall, S.J.** (2019). Community planning opportunities: Building resilience to climate variability using coastal naturalisation. In WL. Filho, PG. Özuyar, P.J. Pace, U. Azeiteiro and L. Brandli (Eds.), *Climate Action, Encyclopedia of the UN Sustainable Development Goals*. London: Springer. https://doi.org/10.1007/978-3-319-71063-1_83-1.
- 8 **Bonnett, N., Birchall, S.J.** (2019). Vulnerable communities: The need for local-scale climate change adaptation planning. In WL. Filho, PG. Özuyar, P.J. Pace, U. Azeiteiro and L. Brandli (Eds.), *Climate Action, Encyclopedia of the UN Sustainable Development Goals*. London: Springer. https://doi.org/10.1007/978-3-319-71063-1_87-1.
- 7 Down, C, **Birchall, S.J.** (2019). Climate change planning: Understanding policy frameworks and financial mechanisms for disaster relief. In WL. Filho, PG. Özuyar, P.J. Pace, U. Azeiteiro and L. Brandli (Eds.), *Climate Action, Encyclopedia of the UN Sustainable Development Goals*. London: Springer. https://doi.org/10.1007/978-3-319-71063-1_80-1.
- 6 **Birchall, S.J.** (2016). *Bending, not breaking, with climate change*. Network for Business Sustainability, Western University. <https://nbs.net/bending-not-breaking-with-climate-change/>.
- 5 **Birchall, S.J.** (2016). *Developing a data driven climate strategy – A case study*. Network for Business Sustainability, Western University. <https://nbs.net/mec-data-driven-climate-change-strategy/>.
- 4 **Birchall, S.J.**, Williams, E. (2015). *Putting climate change on the books*. Network for Business Sustainability, Western University. <https://nbs.net/putting-climate-change-on-the-books/>.
- 3 Ball, A, Grubnic, S, **Birchall, S.J.** (2014). Sustainability accounting and accountability in the public sector. In J. Unerman, J. Bebbington and B. O'Dwyer (Eds.), *Sustainability Accounting and Accountability*. London: Routledge.
- 2 Ball, A, Mason, I, Grubnic, S, Hughes, P, **Birchall, S.J.** (2011). The Carbon Neutral Public Sector: Governmental Accounting and Action on Climate Change. In: Ball, A. and S. Osborn (Eds.), *Social Accounting and Accountability*. London: Routledge.
- 1 Ball, A, Mason, I, Grubnic, S, Hughes, P, **Birchall, S.J.** (2010). Carbon Neutral Public Sector. In: Ball, A., S. Osborn (Eds.), *Social Accounting and Public Management: Accounting for the Public Good*. London: Taylor & Francis.

Non-refereed Journals/Professional Reports Published:

- 11 Gauthier, M., **Birchall, S.J.** (2025). Environmental Change and Resilience: Collaborative Approaches to Circumpolar Education. *UArctic Shared Voices*. <https://www.uarctic.org/about-us/shared-voices-magazine/shared-voices-2025/>.

- 10 **Birchall, SJ, Kehler, S, Weissenberger, S.** (in press). Local-scale climate change resilience: Exploring the role of adaptation planning for flood preparedness in British Columbia's Fraser Valley. *Institute of Catastrophic Loss Reduction*.
- 9 Boezeman, D., Donkers, H., **Birchall, SJ.** (2019). Coastal managed retreat: New branch on the climate adaptation tree. *Geografie*. <https://geografie.nl/artikel/dit-lees-je-het-septembernummer-van-geografie-2019>.
- 8 **Birchall, SJ.** (2019). Climate Change Risk and Planning Response in Dawson City, Yukon – A Look into How Wildfire Features in Local Decision-Making. Institute of Catastrophic Loss Reduction. <https://www.iclr.org/wp-content/uploads/2019/09/Quick-response-Dr.-Jeff-Birchall-2019.pdf>.
- 7 **Birchall, SJ.** (2019). Local Government Climate Change Resilience: Exploring the Role of Adaptation Planning for Flood Preparedness in Fredericton, New Brunswick. Institute of Catastrophic Loss Reduction. <https://www.iclr.org/wp-content/uploads/2019/08/Quick-Response-Jeff-Birchall.pdf>.
- 6 **Birchall, SJ.** (2015). *Adaptation Case Study #5: Horizon Utilities Corporation*. Chartered Professional Accountants of Canada, <https://www.cpacanada.ca/en/business-and-accounting-resources/other-general-business-topics/sustainability/publications/horizon-utilities-climate-change-case-study>.
- 5 **Birchall, SJ.** (2015). *Adaptation Case Study #3: MEC*. Chartered Professional Accountants of Canada, <https://www.cpacanada.ca/en/business-and-accounting-resources/other-general-business-topics/sustainability/publications/mountain-equipment-coop-adapting-to-climate-change>.
- 4 **Birchall, SJ.** (2015). *Adaptation Case Study #2: TransLink*. Chartered Professional Accountants of Canada, <https://www.cpacanada.ca/en/business-and-accounting-resources/other-general-business-topics/sustainability/publications/translink-climate-change-case-study-2>.
- 3 **Birchall, SJ.** (2013). *Organizational involvement in carbon mitigation: The New Zealand Public Sector*. University of Canterbury.
- 2 **Birchall, SJ.** (2008). *Meeting the Challenge of Climate Change: TRCA Action Plan for the Living City*. Toronto Region Conservation Authority.
- 1 **Birchall, SJ.** (2007). A commentary on Canadian Arctic climate change. *Arctic Future*. International Institute for Sustainable Development (IISD). March, p.8.

Blogs Published:

- 2 **Bonnett, N., Birchall, SJ.** (2022). Are we in a new era of climate adaptation implementation? The role of regional governments in facilitating local action. *International Science Council*.
- 1 **Bonnett, N., Birchall, SJ.** (2021). Coastal communities in the Arctic rely on structural measures to adapt to climate change, but should they? *International Science Council*.

RESEARCH GRANTS/ SUPPORT (awarded/ in review)

(TYPE: G: Government; F: Foundation; U: University. ROLE: PI: Principal Investigator; PA: Principal Applicant; CA: Co-Applicant; CPI: Co-Principal Investigator; CI: Co-Investigator; C: Collaborator; P: Partner; LR: Lead Researcher; S: Supervisor).

| Grantor | Purpose | Role | Type | Amount (CAD) | Year |
|---|----------|------|------|--------------|-----------|
| SSHRC Partnership (Advancing transdisciplinary experiential learning for climate change adaptation) - STAGE 2 | Research | CI | G | 2500000 | in review |
| SSHRC Partnership (Advancing transdisciplinary experiential learning for climate change adaptation) - STAGE 1 | Research | CI | G | 20000 | 2025-2026 |
| SSHRC Insight Development (Indigenous Community Responses to Wildfire and Climate Change) | Research | CA | G | 75000 | 2025-2027 |
| SSHRC Insight (Quebec/ New Brunswick, climate adaptation) | Research | CA | G | 350000 | 2025-2029 |

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| SSHRC Knowledge Synthesis (Governance of climate change adaptation in Canada - a multifaceted problem) | Research | CA | G | 30000 | 2025-2026 |
| Strategic Research Initiative Fund (Wildfire, mental health), University of Alberta | Research | P/C | U | 80000 | 2025-2027 |
| NSSRC Alliance (Anthropogenic GHG research) | Research | CPI | G | 700000 | 2024-2028 |
| Sustainability Council - Sustainability Across the Curriculum Course Development Grant | Education | PI | U | 5000 | 2024 |
| Global Arctic Leadership Initiative Fund - Indigenous and Northern Collaborative Research and Education Engagement | Education/ Collaboration | PI | F | 27000 | 2023-2025 |
| Mitacs Globalink (funding for undergraduate intern); National University of Kyiv, Ukraine | Research | PI/S | F | N/A | 2023 |
| UAlberta North - UArctic Thematic Network | Collaboration | LR | U | 25000 | 2022-2024 |
| Global Affairs Canada + UArctic (Climate risk, adaptation) | Education | PI | G | 149000 | 2022 |
| Mitacs Globalink (funding for undergraduate intern); University of Aberdeen, UK | Research | PI/S | F | N/A | 2022 |
| Climate Change Adaptation Strategies for Existing and Planned Infrastructure in the Canadian North, University of Calgary | Research | PI | U | 15000 | 2021-2022 |
| Institute of Catastrophic Loss Reduction - Quick Response Program | Research | PI | F | 4910 | 2021-2022 |
| Mitacs Globalink (funding for undergraduate intern); Bonn University, Germany | Research | PI/S | F | N/A | 2021 |
| Fulbright-Mitacs (funding for undergraduate intern); University of South Carolina, USA | Research | PI/S | F | N/A | 2021 |
| School of Urban and Regional Planning, University of Alberta | Research/ Collaboration | LR | U | 5000 | 2019-2020 |
| Dept. of Earth and Atmospheric Sciences, University of Alberta | Research/ Collaboration | LR | U | 1000 | 2020 |
| UAlberta North - UArctic Thematic Network | Research/ Collaboration | LR | U | 15000 | 2019-2021 |
| University of Alberta Undergraduate Research Initiative (funding for undergraduate intern) | Research | PI/S | U | N/A | 2019 |
| Dept. of Earth and Atmospheric Sciences, University of Alberta | Research/ Collaboration | LR | U | 1000 | 2019 |
| Institute of Catastrophic Loss Reduction - Quick Response Program | Research | PI | F | 4905 | 2019 |
| Mitacs Globalink (funding for undergraduate intern); Northern Forestry University, China | Research | PI/S | F | N/A | 2019 |
| Institute of Catastrophic Loss Reduction - Quick Response Program | Research | PI | F | 5000 | 2018 |
| Ashley and Janet Cameron Research and Education Seed Fund, UAlberta North | Research | PI | U | 3000 | 2017-2018 |
| Research Mobility Fund, Worldwide University Network | Research | PI | F/U | 3000 | 2017-2018 |
| Dept. of Earth and Atmospheric Sciences, University of Alberta | Research | PI | U | 1000 | 2017-2018 |
| Killam Research Fund - Cornerstone Grant | Research | PI | F/ U | 43500 | 2016-2018 |
| Dept. of Earth and Atmospheric Sciences, University of Alberta | Research | PI | U | 2000 | 2016-2017 |

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|---|--------------------------|----|-----|--------|-----------|
| Ashley and Janet Cameron Research and Education Seed Fund, UAlberta North | Research | PI | U | 3000 | 2016 |
| Killam Research Fund - Travel | Conference | PI | F/U | 3200 | 2016 |
| Dept. of Earth and Atmospheric Sciences, University of Alberta | Research | PI | U | 90000 | 2015-2020 |
| Chartered Professional Accountants/ Natural Resources Canada | Research | PI | F/G | 15000 | 2014-2015 |
| New Zealand Royal Society | Research | CI | F/U | 781000 | 2009-2012 |
| Green Municipal Fund/ Province of Ontario/ Region of Peel | Research/ Development | PA | F/G | 110000 | 2008-2009 |
| TRCA/ Conservation Ontario | Research/ Development | PA | F/G | 70000 | 2007-2009 |

SERVICE - SCIENTIFIC COMMUNITY

Research Lab/Network

- 2018- Lead, Thematic Network: Local-Scale Planning for Climate Resilience, University of the Arctic.
- Manage/ lead development and on-going activities (eg. facilitate research collaborations/ knowledge dissemination; create/ convene panels/seminars/ workshops; organize/ support grant applications etc.);
 - Includes 57 circumpolar collaborators, from across 35 institutions (academic and municipal).
- 2015- Director, Climate Adaptation and Resilience Lab, Dept. of Earth and Atmospheric Sciences, University of Alberta.
- Manage/ lead interdisciplinary group, supervise/mentor researchers/ students/ visiting scholars
 - Research focus: coastal and big river community climate resilience. Explore climate impacts and decision dynamics for adaptation planning/ policy; shed light on role planners play and skills/ expertise they harness to support community resilience; emphasis on infrastructure and built form/ spatial planning, ecosystem services, social vulnerability and equity, disaster risk reduction, health/ wellbeing.
 - Manage research budgets, timelines, and strategic direction of the Lab.

Peer Review Manuscript:

- 2025- *WIRES-Clim. Change* (1), *J. of Enviro. Policy and Planning* (1), *Enviro. Sci. and Policy* (1), *Int. J. of Disaster Risk Reduction* (1), *Clim. Policy* (2), *J. of Planning Edu. and Res.* (1), *Sustain. Develop.* (1), *Reg. Enviro. Change* (1), *Land Use Policy* (1), *Enviro. Sociology* (1), *PLOS-Clim.* (1).
- 2023-2024 *Nature Clim. Change* (2), *Global Enviro. Change* (3), *Cities* (2), *J. of Planning Edu. and Res.* (4), *Nat. Hazards* (1), *Lancet Reg. Health* (3), *Urban Clim.* (3), *Clim. Policy* (6), *Reg. Enviro. Change* (2), *Sus. Cities and Society* (3), *J. of Enviro. Policy and Planning* (1), *PLOS-Clim.* (1), *Enviro. Sci. and Policy* (2), *Current Op in Enviro. Sus.* (2).
- 2015-2022 *J. of Cleaner Production* (4), *Polar Record* (2), *Land Use Policy* (2), *Climatic Change* (1), *Canadian J. of Urban Res.* (1), *Reg. Enviro. Change* (6), *Enviro. Planning and Mgmt.* (1), *J. of Enviro. Policy and Planning* (2), *Int. J. of Disaster Risk Reduction* (1), *J. of Mixed Methods Res.* (1), *Mit. and Adapt. Strat. for Global Change* (2), *Energy Econ.* (2), *Rev. of Policy Res.* (1), *Clim. Policy* (2).

Grants:

- 2021 New Frontiers in Research Fund - Exploration Grant (1).
- 2020-2021 EcoCity Edmonton Grant (Infrastructure Acceleration/ Community Action Grant) (25).
- 2018-2022 Mitacs - Accelerate Grant Program (3).
- 2016-2021 Social Science and Humanity Research Council - Insight Grant Applications (2).
- 2012-2017 Asia-Pacific Network for Global Change Research: Scientific Capacity Building/ Enhancement for Sustainable Development in Developing Countries Program (12); Climate Adaptation Framework (3); Collaboration Regional Research Program (2).

Conference Papers/ Sessions:

- 2021-2024 Session Review: *Arctic Congress: 2022*, Moscow, Russia (78); 2024, Bodo, Norway (215).

- 2010-2014 Paper Review: *Australasian Conference on Social and Environmental Accounting Research*, 2010: Albury, Australia (3); 2012: Wollongong, Australia (6); 2014: Melbourne, Australia (3).
- 2010 Paper Review: *Asia Pacific Interdisciplinary Research in Accounting Conference*, Sydney, Australia (2).

Other:

- 2025 External Program Reviewer, Major in Climate Change Studies, University of Toronto Scarborough.
- 2024- Editorial Board, Arctic Resilience Project, Arctic Initiative, Harvard University, USA and High North Centre, Nord University, Norway (book development, co-editor).
- 2024- Editorial Advisory Board, *Regional Environmental Change* (journal).
- 2024 Technical Reviewer, *Canadian Index of Social Vulnerability and Index of Resilience* project, Public Safety Canada and Statistics Canada.
- 2023- Editorial Board, Section Editor (Adaptation), *PLOS Climate* (journal).
- 2022 External Tenure Reviewer, Sustainability Studies Division, School of Marine and Atmospheric Sciences, Stony Brook University, New York, USA.
- 2020 Technical Reviewer, *Climate Science 2050: Advancing Science and Knowledge on Climate Change*, Environment and Climate Change Canada.
- 2017-2022 Editorial Board, Associate Editor, *Encyclopedia of Sustainable Development Goals - Climate Action*. (encyclopedia).
- 2015-2019 Editorial Board, *Science Bulletin*, Asia-Pacific Network for Global Change Research (journal).

Seminar/Session/Conference Development

- 2025 Chair + Organizer, Panel: Climate adaptation through urban planning: Enabling and constraining factors. Adaptation Futures Conference (2025, October), Christchurch, New Zealand.
- 2025 Co-chair + Co-Organizer (w PLOS-Climate), Seminar/ Panel: Exploring climate adaptation in northern communities, UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience (2025, April), University of Alberta (delivered online).
- 2024-2025 Co-Organizer (w Northern Students' Association, Northern Spotlights) + Moderator, Speaker Series, UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, University of Alberta (delivered online).
- Visualizing the Landscape of Tribal Communities: A context for working in rural Alaska (University of Alaska Fairbanks, USA) (2025, March).
 - Global Challenges, Local Struggles: Dissecting Arctic climate change and Indigenous Peoples adaptation in Nunatsiavut (University of Leeds, UK) (2025, February).
 - Planning for change: Exploring resilience in the Yukon through local and regional approaches to climate change adaptation (Yukon University, Canada) (2025, January).
 - A Look at the Waste Management-Climate Change Nexus in Indigenous and Northern Communities (University College of the North, Canada) (2024, November).
- 2023-2024 Co-Organizer (w University of Victoria, Canada; GRID-Arendal, Norway; Læra Institute for Circumpolar Education, Canada; University of Alaska Anchorage, USA), Workshop +Panel: Circumpolar education program on environmental change and resilience, Arctic Congress (2024, May), Bodo, Norway.
- 2023-2024 Program Committee, Arctic Congress 2024, Nord University, Bodo, Norway.

- 2022-2024 Organizer + Moderator, Speaker Series, UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, University of Alberta (delivered online).
- Captive in a prone area? Landowner responsibility for preventing disaster risk in built environment in Norway (Arctic University of Norway Tromsø, Norway) (2024, February).
 - Arctic community-driven education program: From research to Impact (University of Victoria, Canada) (2023, November).
 - Waste management practices in Arctic communities (Harvard University, Arctic Initiative, USA) (2023, October).
 - Implementing sustainability at the local level in Alaska (University of Alaska Anchorage) (2022, September).
 - Arctic and northern community governance: The need for local planning and design as resilience strategy (University of Alberta + Bonn University, Germany) (2022, May).
 - Engaging northern communities using arts-based methods: Talk + film screening (University of Victoria) (2022, March).
- 2021-2023 Co-Chair + Organizer, Graduate Seminar Series, UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, University of Alberta (delivered online).
- Climate change & resilience in the North (Iceland + Canada) (w Aalborg University, Denmark; 2023, April).
 - Climate change & resilience in the North (Canada + Mongolia) (w University of Alaska Anchorage, USA; 2022, November).
 - Climate change & resilience in the North (Canada) (w University of Northern British Columbia, Canada; 2022, February).
 - Climate impacts & responses in the Arctic (Canada) (w Yukon University, Canada; 2021, June).
 - Climate impacts and responses in the Arctic (Canada and Iceland) (w Agricultural University of Iceland, Iceland; 2021, April).
 - Climate impacts and responses in the Arctic (Canada and Russia) (w University of Northern British Columbia, Canada; 2021, March).
 - Climate impacts and responses in the Arctic (Canada, Greenland and Iceland) (w Aalborg University, Denmark; 2021, January).
- 2021-2022 Program Committee, Arctic Congress 2022, Lomonosov Moscow State University, Moscow, Russia.
- 2020-2021 Convenor + Co-Chair (w Agricultural University of Iceland, Iceland), Special Session: Local environmental change and planning for resilience across the Arctic, Arctic Congress (2021, May), Reykjavík, Iceland (delivered online).
- 2020 Chair + Co-Organizer (w GAPSS), Seminar/ Panel: Local-scale Climate Resilience, UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience (2020, March), University of Alberta (inc. significant virtual component).
- 2018-2019 Convenor, Special Session: Climate change impacts and resilience planning, Canadian Association of Geographers (Western Division) Conference (2019, March), Victoria, Canada.
- 2018 Convenor, Panel: Climate Change Resiliency, PLACE 18 National Planning Students Conference (2018, October), Edmonton, Canada.
- 2018 Convenor, Special Session: Climate risks and resilience planning in Canadian coastal communities, Canadian Association of Geographers (Western Division) Conference (2018, March), Edmonton, Canada.
- 2018 Convenor, Special Session: Environmental and community challenges in rapidly changing polar coastal zones, POLAR 2018 Conference (2018, June), Davos, Switzerland.

SERVICE - GENERAL COMMUNITY

Expert Advising

- 2024-2026 Sponsor, Candidate Membership, Professional Standards Board for the Planning Profession in Canada (to become a Registered Professional Planner - RPP/ MCIP; Y. Parmar).
- 2024 Invited Expert, Roundtable: Resilience in the North: Measuring progress and mapping a path, Harvard University, Arctic Initiative (w Association of World Reindeer Herders, Nord University Business School), Arctic Congress (2024, June), Bodo, Norway.

- 2023-2025 Member, Energy Transition Climate Resilience Committee (ETCRC), City of Edmonton, Canada.
 - Share with, and receive from City Manager, information regarding implementation of the Climate Resilient Edmonton and the Energy Transition Strategies;
 - Provide broad independent advice and support to City Council on implementation of the Climate Resilient Edmonton and Energy Transition Strategies, as well as other city plans related to climate and energy transition (ie. Zoning Bylaw renewal, district planning and growth management);
 - Assist City Council in developing performance measures for the Climate Resilient Edmonton and the Energy Transition Strategies;
 - Participate on the Climate Emergency and Culture Change Subcommittee.
- 2023-2025 Sponsor, Candidate Membership, Professional Standards Board for the Planning Profession in Canada (to become a Registered Professional Planner - RPP/ MCIP; R. Karimi-Boushehri).
- 2023- Working Group, Climate Change and Health Hub, College of Health Science, University of Alberta.
- 2021-2025 External Advisory Group for Climate Action, Agricultural University of Iceland, Hvanneyri, Iceland.
- 2021-2022 Content Expert and Principal Investigator, Climate adaptations in the Canadian Arctic: A community-driven education program (w UArctic and Live It Earth): *Arctic Communities*; <https://app.liveit.earth/programs/oceans-world-oceans-day>. (developed programming for K-12 across Canada).
- 2021-2024 Advisory Group, National Risk Profile (Scoping and Assessment Capabilities), Public Safety Canada, Government of Canada.
- 2021-2022 Invited Expert, Strategic Priority Setting, National Climate Change Plan (Climate Science 2050). Government of Canada.
- 2021-2023 Advisory Committee, Adaptation Training for Prairies-Region Planners, Climate Change and Resilience, Climate Risk Institute & Canadian Institute of Planners (NRCan - Building Regional Adaptation Capacity and Expertise (BRACE) Program).
- 2020 Invited Expert, Quick Response Research Workshop (PII: During the research), Institute for Catastrophic Loss Reduction and the Natural Hazards Center (2020, July) (virtual workshop).
- 2020 Invited Expert, Quick Response Research Workshop (PI: Before the research), Institute for Catastrophic Loss Reduction and the Natural Hazards Center (2020, June) (virtual workshop).
- 2020 Invited Expert, Roundtable Discussion on National Climate Change Science and Knowledge Plan, Environment and Climate Change Canada (2020, February) (virtual seminar).
- 2019- Internal Evaluation Committee, Thematic Network Leadership Team, Arctic Assembly/ UArctic.
- 2019-2020 Adviser, Stakeholder Group, Alberta Centre for Sustainable Rural Communities, Canada.
- 2017-2020 Working Group on the Sustainable Development Goals, Inter-University Sustainable Development Research Program.
- 2017- 2019 Adviser, Working Group on Climate Adaptation, Climate Adaptation Strategy, City of Edmonton, Canada.
- 2016-2017 Stakeholder Group, Partners for Action, University of Waterloo, Waterloo, Canada.
- 2013-2018 Associate, Sustainability Solutions Group, Victoria, Canada.
- 2013-2015 Chair, Strategic Resources Committee, Board of Directors, Environmental Education Ontario, Toronto, Canada.
- 2013-2015 Working Group 4, Greenhouse Gas Management Institute.
- 2012-2013 Mentor, PhD Student Support Services, University of Canterbury, Christchurch, New Zealand.
- 2011-2012 Adviser, Local Government, New Zealand Office of the Auditor-General, Wellington, New Zealand.
- 2010-2011 Adviser, Carbon Solutions Centre, University of Canterbury, Christchurch, New Zealand.
- 2006-2009 Adviser, Greenest City - Clean Air Partnership, Toronto, Canada.
- 2008-2009 Adviser, Groundwater and Surface Water Monitoring Network Review, Conservation Ontario, Canada.
- 2007-2009 Advisor, Climate Change Position Paper Task Force, World Green Building Council Secretariat, Canada.

SERVICE - INSTITUTIONAL (University of Alberta)

General

- 2021- Associate Director, School of Urban and Regional Planning, Dept. of Earth and Atmospheric Sciences.
- Participate in strategic planning with School Director, assist with implementation of ad hoc plans;
 - Lead/ assist with accreditation (re-) evaluation (undergraduate program in 2021);
 - Coordinate undergraduate recruitment and admissions; Coordinate annual Open House;
 - Manage undergraduate (planning) listserv, moderate/ approve content and posts;
 - Oversee/ supervise Faculty Advisor, Undergraduate Specialization & Honours (Planning);
 - Manage program calendar changes, draft class schedule, teaching schedule, and TA assignments;
 - Develop/ oversee graduate Boot Camp (6 sessions);
 - Develop/ manage the School newsletter;
 - Develop/ manage the School's internship program;
 - Liaise with Alberta Professional Planners Institute, Canadian Institute of Planners, Community Planning Association of Alberta; coordinate meet and greets, represent SURP at events.
- 2025- Faculty Adviser, MSc in Urban and Regional Planning, Dept. of Earth and Atmospheric Sciences.
- 2021-2023 Chair, Web Publishing and Newsletter Committee (Planning), Dept. of Earth and Atmospheric Sciences.
- 2021-2022 Undergraduate Awards Evaluation Committee, Dept. of Earth and Atmospheric Sciences.
- 2021-2022 Environment, Health and Safety Committee, Dept. of Earth and Atmospheric Sciences.
- 2020-2023 Faculty Adviser, Undergraduate Specialization & Honours (Planning), Dept. of Earth and Atmospheric Sciences.
- Advise undergraduates (BA/ BSc) on program planning, co-op/ work experience, career paths;
 - Liaise with Faculties of Arts/ Science on matters related to undergraduate programming;
 - Make recommendations on program exceptions to Faculties of Arts/ Science
 - Rectify outstanding grades in PLAN courses;
 - Evaluate program transfers and course equivalencies for PLAN courses (internal and external to University of Alberta)
- 2020-2021 Adjudicator, Evaluation Committee, Undergraduate Research Initiative.
- 2019-2020 Faculty Search Committee (Faculty Lecturer), Dept. of Earth and Atmospheric Sciences.
- 2019-2020 Faculty Adviser, Graduate Program (Planning), Dept. of Earth and Atmospheric Sciences.
- 2019 Faculty Search Committee (Assistant Professor, tenure-track), Dept. of Earth and Atmospheric Sciences.
- 2018-2021 Faculty of Science Representative, Arts Faculty Council.
- 2017- MSc. Admissions Committee (Planning), Dept. of Earth and Atmospheric Sciences.
- 2017-2020 Faculty of Science Representative, General Faculties Council.
- 2017-2019 Faculty Adviser, MSc in Urban and Regional Planning, Dept. of Earth and Atmospheric Sciences.
- 2016-2017 Brookfield Residential Visiting Scholar Committee (Planning), Dept. of Earth and Atmospheric Sciences.
- 2016-2017 BSc Planning Admissions Committee (Planning), Dept. of Earth and Atmospheric Sciences.

Thesis Defence/ PhD Candidacy Exam

(As external committee member; plus for all those I supervise, noted under *Supervision* below. **ROLE:** EC: Exam Chair; EE: External Examiner; A-LE: Arms-length Examiner; SR: Second Reader)

| Year | Student | Degree | Institution | Role |
|------|----------------|---------------------------------------|------------------------------|------|
| 2025 | K. Koukouzikis | MA, Human Geo | University of Alberta | EC |
| 2024 | N. Rogers | PhD, Geo, Planning, & Spatial Science | University of Tasmania (AUS) | EE |
| 2024 | E. Elm | MSc, Planning | University of Alberta | SR |
| 2023 | J. Quirk | MA, Human Geo | University of Alberta | A-LE |
| 2023 | A. Bafgeesh | MA, Human Geo | University of Alberta | A-LE |

| | | | | |
|------|--------------|---|-----------------------|------|
| 2022 | B. Kapatsila | PhD, Human Geo | University of Alberta | A-LE |
| 2021 | S. Patel | MSc, Resource Economics & Environ. Soc. | University of Alberta | A-LE |
| 2021 | M. Stout | MA, Human Geo | University of Alberta | A-LE |
| 2020 | E. Pollock | MSc, Planning | University of Alberta | SR |
| 2019 | Y. Yang | PhD, Civil & Environ. Engineering | University of Alberta | A-LE |
| 2019 | E. Moezzi | MSc, Planning | University of Alberta | SR |
| 2019 | N. Osorio | MSc, Planning | University of Alberta | SR |
| 2019 | C. Enkhbayar | MA, Human Geo | University of Alberta | A-LE |
| 2019 | S. Gul | PhD, Human Geo | University of Alberta | A-LE |

SUPERVISION & MENTORSHIP

(**ROLE:** S: Supervisor; Co-S: Co-Supervisor; SC: Supervisory Committee. **OTHER:** DNF: did not finish)

NOTE: Scholarships/ recognitions: ¹Brookfield Residential/ SURP Scholarship; ²SSHRC Canada Graduate Scholarship-MA; ³Queen Elizabeth II Fellowship; ⁴Walter H. Johns Graduate Fellowship; ⁵Persons Case Scholarship; ⁶Graduate Travel Award; ⁷Alberta Graduate Excellence Scholarship (AGES)/ AGES Indigenous Scholarship; ⁸Alberta Government Graduate Student Scholarship; ⁹Sustainability Scholar; ¹⁰Alberta Professional Planners Institute Scholarship; ¹¹SSHRC Doctoral Fellowship; ¹²President's Doctoral Prize of Distinction (University of Alberta); ¹³Alberta Professional Planners Institute Essay Contest; ¹⁴Canadian Institute of Planners President's Award; ¹⁵Howard and Caroline Malm Graduate Award in Climate Change; ¹⁶SSHRC Talent Award (University of Alberta nominee); ¹⁷SSHRC CGS - Doctoral; ¹⁸Canadian Institute of Planners Outstanding Graduating Student Award (previously the President's Award); ¹⁹APPI Conference Award; ²⁰Dept of Earth and Atmospheric Sciences Recruitment Scholarship (PhD); ²¹NSERC Wildlife Strategic Network; ²²City of Edmonton Graduate Fellowship; ²³Friends of the Faculty of Graduate Studies and Research Scholarship; ²⁴UArctic Travel Grant; ²⁵GPS Graduate Elevation Award; ²⁶Lorna and Alan Stickel Graduate Scholarship; ²⁷Steve and Elaine Antoniuk Grad Scholarship in Arctic Research; ²⁸Graduate Student Teaching Award; ²⁹GPS Graduate Student Elevation Award; ³⁰Andrew Stewart Memorial Graduate Prize; *Did Not Finish.

NOTE: Course-based MSc, Planning: This program includes a major research paper or applied project involving advanced research and analysis on a critical issue, case or site in contemporary urban planning, design and development. Major papers involve the identification of a research problem with appropriate primary and secondary research methods, data collection and analysis. Major projects involve the development of an original applied design solution for a particular site or case in contemporary urban planning and design. Graduate students often join a research lab during the first semester of their MSc. The supervisor serves as a mentor throughout the process (much like a thesis-based program).

Life-time summary (count) according to the following categories:

| | In Progress | Completed | Total |
|--|-------------|-----------|-------|
| <u>Supervision</u> (direct) | | | |
| • PhD | 3 | 0 | 3 |
| • MSc/ MA | 6 | 30 | 36 |
| • Graduate Assistants | 3 | 9 | 12 |
| <u>Mentorship</u> (direct) | | | |
| • Research Volunteers | 3 | 9 | 12 |
| • Research Internships (international) | 0 | 7 | 7 |
| • Directed Studies | 0 | 16 | 16 |

Supervision - Graduate Students

| Year | Student | Degree | Research Area | Role |
|-----------|--|---------------|--|------|
| 2024- | D. Rose ^{6,12,17,20,24,28} | PhD, Planning | Rural health, social vulnerability, climate adaptation | S |
| 2024-2026 | R. Jassar ¹ | MSc, Planning | Urban resilience, green space connectivity, Alberta | S |
| 2024-2026 | A. Esmaeilzadeh Seilabi ¹ | MSc, Planning | Environmental hazards, governance, urban planning | S |
| 2024-2026 | J. Russell ¹ | MSc, Planning | Wildfire preparedness, governance, planning, BC | S |
| 2024-2026 | K. Prud'homme ¹ | MSc, Planning | Rural planning, road side rest stops, Alberta v. Japan | S |
| 2024-2026 | F. Colla Warmling | MSc, Nat Res | Wildfire, post-fire recovery, nature-based tourism, Alberta | SC |
| 2024-2026 | K. Sarpong ¹ | MSc, Planning | CREST, local perceptions of climate change, adaptation | S |
| 2024-2025 | B. Baverstock ¹ | MSc, Planning | Transitional housing, harm reduction, urban resiliency | Co-S |
| 2023-2025 | K. Mickelson ¹ | MSc, Planning | Urban crime, social vulnerability, perceptions, CPTED | S |
| 2023-2025 | E. Tugirimana ¹ | MSc, Planning | Urban governance: People-centred v. public order | S |
| 2023-2025 | J. Wagenaar ¹ | MSc, Planning | Human and wildlife conflict in developed areas | S |
| 2023-2025 | C. Kuiper ^{7,21} | MSc, Nat Res | Communications vulnerabilities associated with wildfire | SC |
| 2022-2024 | K. Li ^{1,10} | MSc, Planning | Resilience branding, efficacy and effectiveness, Olympics | S |
| 2022-2024 | T. De Souza Jensen ¹ | MSc, Planning | Climate resilience, peri-urban regional food production | S |
| 2021- | S. Kehler ^{12,17,22,25,29} | PhD, Planning | Climate change and planning for vulnerable communities | S |
| 2020-2024 | N. Polard-Yopek ⁹ | MA, Human Geo | First Nations wildfire evacuation partnership | SC |
| 2021- | N. Bonnett ^{6,7,11,12,15,16,23,24,26,27,30} | PhD, Planning | Managed retreat/ relocation as strategic planning and response to climate change risk (across Canada) | S |
| 2021-2023 | D. Rose ^{1,18} | MSc, Planning | Climate change stressors, community health/ wellbeing | S |
| 2021-2023 | N. Zazula ^{1,10} | MSc, Planning | Urban resilience through ecosystem services in Alberta | S |
| 2021-2023 | R. Karimi-Boushehri ^{1,9} | MSc, Planning | Relationship between cultural ecosystem services and community resilience | S |
| 2021-2022 | A. Bafgeesh* | PhD, Planning | Effects of oil sands development, local strategy | SC |
| 2020-2022 | F. Fazeli* | PhD, Planning | River valley design and wellbeing | SC |
| 2020-2022 | K. Villeneuve ^{1,14} | MSc, Planning | Assessing climate risk in vulnerable populations (BC) | S |
| 2020-2022 | S. Adams | MSc, Planning | Heritage planning and climate change resilience (BC) | S |
| 2020-2022 | N. Baran ^{1,2,4,9,13} | MSc, Planning | Stormwater planning in the context of climate variability (BC, Alberta, Manitoba, New Brunswick) | S |
| 2019-2021 | T. Slater ^{1,14} | MSc, Planning | Planning for seismic resilience in Vancouver, BC | S |
| 2019-2021 | J. Muffly ¹ | MSc, Planning | Wildfire and planning for resilience in Alberta | S |
| 2019-2021 | S. Kehler ^{1,9} | MSc, Planning | Exploration of social context of climate vulnerability | S |
| 2019-2021 | S. MacDonald ^{1,9,10} | MSc, Planning | Climate change and planning for resilience - Alberta | S |
| 2019-2021 | S. Aiken ¹ | MSc, Planning | Planning for seismic resilience in Anchorage, Alaska | S |
| 2018-2020 | R. Adhikari ¹ | MSc, Planning | Role of coastal parks in insulating communities from enviro extremes: Point Pleasant Park, Halifax, NS | S |
| 2018-2020 | E. Renchko ¹ | MSc, Planning | Climate adaptation and resilience in Corner Brook, NL | Co-S |
| 2018-2020 | R. Halabut ¹ | MSc, Planning | Rising temp. on forests and planning for their future | S |

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|-----------|------------------------------------|---------------|--|------|
| 2018-2020 | N. Zangi ^{1,10} | MSc, Planning | Effects of mining industry on the Athabasca River | S |
| 2018-2019 | L. Anderson ^{2,*} | MA, Human Geo | Transportation planning | S |
| 2017-2019 | N. Bonnett ^{2,3,4,5,6} | MA, Human Geo | Climate change adaptation, strategic planning in BC | S |
| 2017-2019 | M. Chan ¹ | MSc, Planning | Public transportation, services for aging societies | S |
| 2017-2019 | E. McDonald-Yale ¹ | MSc, Planning | Improving campus design for wellbeing, northern climates | S |
| 2017-2019 | D. Baikie ¹ | MSc, Planning | Resource development, caribou conservation (Nunavut) | S |
| 2017-2019 | D. Macdonald ^{1,6,8,19} | MSc, Planning | Infrastructure adaptive readiness (Manitoba) | S |
| 2017-2019 | V. Antonakis ^{1,5,6,8,10} | MSc, Planning | Climate adaptations and built heritage (Prince Edward Is) | S |
| 2017-2019 | C. Heang ^{1,6,8,9} | MSc, Planning | Planning tools for coastal naturalization/ adaptation (BC) | S |
| 2016-2018 | D. Gillespie ^{9,*} | MA, Human Geo | Town planning and rising seas (Nova Scotia) | Co-S |

Supervision - Graduate Assistants

| Year | Student | Activity/ Focus | Role |
|-----------|---------------|---|------|
| 2024- | D. Rose | Senior Graduate Research Assistant, Planning (local-scale climate resilience) | S |
| 2022-2023 | D. Rose | Graduate Assistant (programming), School of Urban and Regional Planning | Co-S |
| 2021-2023 | K. Villeneuve | Graduate Research Assistant, Planning (climate adaptation/ BC cities) | S |
| 2021-2023 | N. Baran | Graduate Research Assistant, Planning (ecosystem services) | S |
| 2021-2022 | R. Paonessa | Graduate Assistant (programming), School of Urban and Regional Planning | Co-S |
| 2021- | S. Kehler | Senior Graduate Research Assistant, Planning (BC Fraser Valley flooding) | S |
| 2020- | N. Bonnett | Senior Graduate Research Assistant, Planning (climate resilience, relocation) | S |
| 2019-2021 | S. MacDonald | Graduate Research Assistant, Planning (Climate adaptation/ Arctic) | S |
| 2019 | V. Antonakis | Graduate Assistant (development), MOOC: Arctic Development + Planning | S |
| 2018-2019 | N. Bonnett | Graduate Assistant (development), MOOC: Arctic Development + Planning | S |
| 2017-2018 | N. Bonnett | Graduate Research Assistant, Planning (Coastal climate resilience - BC, NS) | S |
| 2017-2018 | D. Baikie | Graduate Assistant (development), MOOC: Arctic Development + Planning | S |

Mentorship - Research Volunteers

| Year | Student | Activity/ Focus | Role |
|-----------|---------------|---|------|
| 2025- | B. Podloski | Planning (climate adaptation/ emergency response/ AB) | S |
| 2024- | N. Darrah | Planning (climate adaptation/ southern BC) | S |
| 2023- | R. Goulet | Planning (climate adaptation/ emergency response/ BC) | S |
| 2023 | D. Rose | Planning (climate adaptation/ health, urban resilience) | S |
| 2021-2022 | S. Adams | Planning (urban climate adaptation/ BC) | S |
| 2020-2021 | T. Slater | Planning (climate adaptation/ big river) | S |
| 2020-2021 | M. Korczewski | Planning (climate adaptation/ Yukon) | S |

| | | | |
|-----------|--------------|---|---|
| 2019-2020 | Y. Du | GIS (climate resilience/ Arctic); Undergraduate student | S |
| 2019 | Y. Parmar | Planning (climate change readiness/ Yukon) | S |
| 2018-2019 | S. MacDonald | Planning (climate stressors/ Maritimes/ NWT) | S |
| 2018-2019 | D. Macdonald | Planning (coastal climate adaptation/ Maritimes) | S |
| 2016-2017 | C. Heang | Planning (coastal naturalization/ BC/ Alaska) | S |
| 2016 | N. Bonnett | Planning (coastal climate resilience/ Alaska) | S |

Mentorship - Research Internships

| Year | Student | Activity/ Focus | Role |
|-------------|----------------|--|-------------|
| 2023 | L. Sandberg | UArctic North2North Research Internship - PhD (Arctic University of Norway Tromso, Norway), Planning (disaster liability/ urban climate change resilience) | S |
| 2023 | A. Volkova | Mitacs Globalink Undergraduate Summer Intern (National University of Kyiv, Ukraine), Planning (resilient cities/ climate adaptation) | S |
| 2022 | E. Gilchrist | Mitacs Globalink Undergraduate Summer Intern (University of Aberdeen, United Kingdom), Planning (resilient cities/ climate adaptation) | S |
| 2021 | S. Rombach | Mitacs Globalink Undergraduate Summer Intern (Bonn University, Germany), Planning (resilient cities/ climate adaptation) | S |
| 2021 | V. Ponds | Fulbright-Mitacs Undergraduate Summer Intern (University of South Carolina United States), Planning (resilient cities/ climate adaptation) | S |
| 2019 | Z. Fan | Mitacs Globalink Undergraduate Summer Intern (Northern Forestry University, China), Planning (climate adaptation/ Yukon) | S |
| 2019 | A. McPhee | Undergraduate Research Initiative Summer Intern (University of Alberta), Planning (cartography/ Prairies) | S |

Mentorship - Directed Study Supervision

(University of Alberta, unless otherwise noted)

| Year | Course | Students |
|-------------|---|---|
| 2025 | SUST410: Sustainability, climate resilience, policy | 1x BA, Human Geography |
| 2024 | PLAN520: Climate change, urban health/ wellbeing | 1x PhD Earth and Atmospheric Sciences |
| 2023 | SUST410: Sustainability and local-scale resilience | 1x BA, Human Geography |
| 2022 | PLAN520: Climate change risk perception, politics | 1x PhD Earth and Atmospheric Sciences |
| 2021 | PLAN520: Planning for climate resilience | 1x MSc, Earth and Atmospheric Sciences |
| 2021 | EAS428: Soc. research methods, climate adaptation | 1x BSc, Earth and Atmospheric Sciences |
| 2020 | EAS427: Planning and climate change resilience | 1x BSc, Earth and Atmospheric Sciences |
| 2020 | PAED567: Climate change and health | 1x PhD, Pediatrics/ Medical Sciences |
| 2019 | PLAN520: Planning for climate resilience | 1x MSc, Earth and Atmospheric Sciences |
| 2018 | PLAN520: Local climate risks and adaptations | 1x MA, 3x MSc, Earth and Atmospheric Sciences |
| 2017 | PLAN520: Research approaches for enviro. change | 1x MA, Earth and Atmospheric Sciences |
| 2016 | HUMN6040: Science/ technology for the humanities | 1x PhD, Interdisciplinary Studies (Memorial University) |
| 2014 | GEOG6180: Social and environmental change | 1x MLA, Landscape Architecture (University of Guelph) |

COURSES DEVELOPED AND TAUGHT

(LEVEL: G: Graduate; UG: Undergraduate. SEMESTER: F: Fall; W: Winter; S: Spring)

University of Alberta, Edmonton, Alberta, Canada

School of Urban and Regional Planning/ Human Geography (2016-present)

| Course | Level | Term | Year |
|---|-------|------|-----------|
| PLAN485: Advanced Topics in Planning: Climate Change Adaptation for Communities | UG | W | 2025- |
| PLAN511: Advanced Professional Planning Practice and Ethics | G | F | 2018- |
| PLAN500: Planning for Resilient Cities and Regions | G | W | 2018- |
| PLAN598: Advanced Research Methods and Analysis | G | F | 2017-2023 |
| PLAN399: Research Methods in Planning | UG | F | 2016-2023 |
| PLAN410: Professional Planning Practice and Ethics | UG | F | 2016- |

Massive Open-Online Course (MOOC):

Arctic Development (Community Planning and Resilience)

- Co-developed course (2018-2020): subject matter expert, content developer/ writer; on-screen host; supervised graduate research assistants.
- Co-Instructor (2021-2025): [Online course](#).

Toronto Metropolitan University, Toronto, Ontario, Canada

School of Urban and Regional Planning (2008-2019)

| Course | Level | Term | Year |
|---|-------|------|-----------|
| CPL845: Topics in Planning: Climate & Resilience Planning: Science to Policy | UG | S | 2010-2019 |
| PLE745: Special Topics in Planning: Climate Change & Critical Thought | UG | F | 2009 |
| PLG720a: Advanced Studio: Sustaining Conservation Lands I: Public Use & Rec. Plan | UG | W | 2008 |
| PLG720b: Advanced Studio: Sustaining Conservation Lands II: Site Securement Plan | UG | W | 2008 |
| PLG620: Advanced Studio: Alternative Approaches to Site Development (Reduce UHI) | UG | F | 2008 |
| CPL845: Topics in Planning: Climate & Resilience Planning: Science to Policy | UG | S | 2010-2019 |

University of Canterbury, Christchurch, New Zealand

Department of Management (2009-2011)

| Course | Level | Term | Year |
|--|-------|------|-----------|
| MGMT230: Business, Society and the Environment | UG | W | 2009-2011 |

SOCIETY AFFILIATION/ PROFESSIONAL DESIGNATIONS

| | |
|---|-----------|
| Canadian Meteorological and Oceanographic Society. | 2023-2024 |
| Alberta Professional Planners Institute (Registered Professional Planner). | 2021- |
| Canadian Institute of Planners (Member of the Canadian Institute of Planners). | 2021- |
| Arctic Sustainable Resources and Social Responsibility, UArctic Thematic Network. | 2019- |
| Association of Polar Early Career Scientists. | 2017-2024 |
| International Union for Conservation of Nature, Commission on Ecosystem Management. | 2017-2021 |
| International Sustainable Development Research Society. | 2016- |
| Greenhouse Gas Inventory Quantification (Certified via Canadian Standards Association). | 2012-2015 |

New Zealand Institute of Chartered Accountants SIG on Climate Change and Sustainability.

2009-2013

HONOURS: ACADEMIC, SCHOLARLY AND PROFESSIONAL

(NOTE: A full list of pre-PhD awards/ scholarships available upon request)

| | |
|---|-----------|
| (University of Alberta Nomination) <u>Frontiers Planet Prize</u> (for excellence in research; international). | 2024 |
| (Dept. Nomination) GSA Faculty of Science Graduate Student Mentorship Award, University of Alberta. | 2023 |
| (Dept. Nomination) GSA Faculty of Science Graduate Student Mentorship Award, University of Alberta. | 2022 |
| (Dept. Nomination) GSA Faculty of Science Graduate Student Supervision Award, University of Alberta. | 2019 |
| College of Fellows, Royal Canadian Geographical Society. | 2018- |
| International Fellow, The Explorers Club. | 2018- |
| (McMaster University Nomination) Banting Postdoc Fellowship, School of Geography and Earth Sciences. | 2013 |
| Letter of Recognition for Achievement in PhD Research - Prime Minister Stephen Harper (Canada). | 2013 |
| Asia Pacific Interdisciplinary Research Emerging Scholar's Award, University of Sydney, Australia. | 2010 |
| Royal Society of New Zealand Marsden PhD Fellowship, University of Canterbury, New Zealand. | 2009-2012 |

CONFERENCE PRESENTATIONS/ PROCEEDINGS

(underlined - graduate student under my supervision)

- 34 2025, October. *Institutional barriers, adaptive capacity & resilience in Fraser Valley, British Columbia, Canada.* Adaptation Futures Conference, Christchurch, New Zealand. (w. Kehler, S., Weissenberger, S.).
- 33 2025, October. *Moving from talk to action: Exploring progress on health-focused climate adaptation in Western Canadian communities.* Adaptation Futures Conference, Christchurch, New Zealand. (w. Rose, D.).
- 32 2025, October. *Local planning for climate induced relocation: Insights from the Canadian Arctic.* Adaptation Futures Conference, Christchurch, New Zealand. (w. Bonnett, N.).
- 31 2025, October. *Progress on climate change adaptation in practice: Insights from local and territorial government interactions.* Adaptation Futures Conference, Christchurch, New Zealand. (w. Rose, D., Bonnett, N.).
- 30 2025, June. *The relevance of regional scale adaptation processes in Canada: Examples from Quebec and New Brunswick.* Coastal Zone Canada Conference. Charlottetown, Canada. (w. Weissenberger, S., Chouinard, O., Bastien-Porlier, N.).
- 29 2025, May. *L'échelle régionale de l'adaptation aux changements climatique au Canada et au Québec.* Premier Congrès du Réseau Québécois d'Adaptation et de Gestion des Zones Côtières. Rivière-du-Loup, Canada. (w. Weissenberger, S.).
- 28 2025, April. *Climate change adaptation planning: Breaking down barriers through comprehensive educational frameworks.* National Forum: Accelerating Climate Education, University of Waterloo/ Waterloo Climate Institute, Waterloo, Canada. (w. MacDonald, S., Bonnett, N.).
- 27 2024, June. *A last resort or a sustainable adaptation option?: Planning for relocation in Northern communities vulnerable to climate stressors.* Arctic Congress. Bodo, Norway. (w. Bonnett, N.).
- 26 2024, June. *Progress on climate resilience in practice: Insights from local and territorial government interactions.* Arctic Congress. Bodo, Norway. (w. Rose, D., Bonnett, N.).
- 25 2024, April. *We Need to Talk: A case study on the importance of meaningful communication and collaboration for fostering community resilience.* Community Planning Association of Alberta Annual Conference, Red Deer, Canada. (w. Bonnett, N., Rose, D.)
- 24 2024, April. *Arctic cities' policymaking in response to climate change: Exploring interactions with state and non-state actors.* International Studies Association Conference. San Francisco, USA. (w. Filimonova, N.).

- 23 2023, June. *A multi-stakeholder perspective of community climate change risk and vulnerability*. Canadian Meteorological and Oceanographic Society Congress. St John's, Canada. (w. [Kehler, S](#), [Weissenberger, S](#)).
- 22 2023, February. *Role of adaptation planning in supporting climate change resilience in remote northern communities*. Arctic Science Summit Week. Vienna, Austria. (w. [Bonnett, N](#)).
- 21 2022, May. *Avoiding maladaptation: Understanding vulnerability to climate change and encouraging resilience through policy*. Community Planning Association of Alberta Annual Conference. Leduc, Canada. (w. [Kehler, S](#)).
- 20 2021, November. *Technocracy, climate change and ineffective policy: a critical exploration of the social context of climate change vulnerability*. PLACE 21 Conference. (w. [Kehler, S](#)).
- 19 2021, May. *Local environmental change and planning for resilience across the Arctic*. Arctic Congress, Reykjavik, Iceland.
- 18 2021, March. *The influence of regional strategic policy on municipal climate adaptation planning*. Canadian Association of Geographers (Western Division) Conference, Lethbridge, Canada. (w. [Bonnett, N](#)).
- 17 2020, November. *Coastal climate adaptation planning and evolutionary governance: Insights from Alaska*. Conference on Ocean Governance: Action, insights and foreshadowing challenges. Bremen, Germany.
- 16 2020, September. *Climate change resilience building: Finding balance in adaptation governance*. International Conference on Sustainable Development, New York City, United States. (w. [MacDonald, S](#), [Slater, T](#)).
- 15 2018, October. *Local scale climate vulnerability and response: Insights from decision-makers in Victoria, BC*. PLACE 18 National Planning Conference, Edmonton, Canada. (w. [Antonakis, V](#), [Heang, C](#), [Macdonald, D](#)).
- 14 2018, October. *Local scale climate vulnerability and response: Insights from decision-makers in North Vancouver, British Columbia*. PLACE 18 National Planning Conference, Edmonton, Canada. (w. [Heang, C](#), [Macdonald, D](#), [Antonakis, V](#)).
- 13 2018, October. *The incorporation of climate change adaptation into strategic policy in British Columbia local government: The case of Victoria and North Vancouver*. PLACE 18 National Planning Conference, Edmonton, Canada. (w. [Macdonald, D](#), [Antonakis, V](#), [Heang, C](#)).
- 12 2018, October. *Community scale climate vulnerability: The case of Surrey, British Columbia*. PLACE 18 National Planning Conference, Edmonton, Canada. (w. [Bonnett, N](#)).
- 11 2018, September. *Thinning sea ice and thawing permafrost: Climate change adaptation planning in Nome, Alaska*. International Conference on Sustainable Development, New York City, United States.
- 10 2018, March. *Climate change risks and adaptation planning in coastal communities*. Canadian Association of Geographers (Western Division) Conference, Edmonton, Canada. (w. [Bonnett, N](#)).
- 9 2018, March. *Local scale climate vulnerability in Surrey, British Columbia*. Canadian Association of Geographers (Western Division) Conference, Edmonton, Canada. (w. [Bonnett, N](#)).
- 8 2018, March. *Between a rock and a hard place - Planning for sea level rise in Bedford, Nova Scotia*. Canadian Association of Geographers (Western Division) Conference, Edmonton, Canada. (w. [Gillespie, D](#), [Singh, A](#)).
- 7 2017, June. *Climate Change Adaptation Planning in Northern Communities: The Case of Nome, Alaska*. Canadian Institute of Planners Conference, Calgary, Canada.
- 6 2017, April. *Northern Community Climate Change Adaptation Planning: The Case of Homer, Alaska*. Arctic Science Summit, Prague, Czech Republic.
- 5 2016, September. *Climate change adaptation planning: Lessons from Nome, Alaska*. Livable Cities Forum, Halifax, Canada.
- 4 2016, July. *New Zealand voluntary carbon market: An investigation at the organizational level*. International Sustainable Development Research Society Conference, Lisbon, Portugal. (w. [Murphy, M](#), [Milne, M](#)).
- 3 2012, April. *Organizational involvement in carbon management*. International Research Society for Public Management Conference, Rome, Italy.
- 2 2011, May. *New Zealand government organizations and carbon neutrality: Should the Carbon Neutral Public Sector program have been scrapped?* American Canadian Conference for Academic Disciplines, Toronto, Canada. (w. [Ball, A](#), [Mason, I](#), [Milne, M](#)).

- 1 2010, December. *Environmental & economic benefits of the New Zealand Carbon Neutral Public Service program*. Australasian Conference on Social and Environmental Accounting Research, Albury, Australia. (w. Ball, A, Mason, I, Milne, M.).

INVITED SPEAKING (Seminar, Panel, Guest Lecture, Keynote)

(underlined - graduate student under my supervision)

- 52 2025, June (seminar). *Urban planning: Building climate-resilient communities through adaptation planning*. Science Talks Series. University of Alberta, Edmonton, Canada.
- 51 2025, March (guest lecturer). *The role of policy and planning in climate adaptation*. PLAN503: Masters Project Proposal, University of Alberta, Edmonton, Canada.
- 50 2024, November (seminar). *Moving from talk to action: Exploring progress on health-focused climate adaptation in Western Canadian communities*. Healthy Built Environment Alliance Webinar. (w. Rose, D.)
- 49 2024, October (seminar). *We need to talk: Fostering community resilience through meaningful communication and collaboration*. Northern Spotlights Speaker Series, Northern Students' Association, University of Alberta. (w. Bonnett, N, Rose, D).
- 48 2024, June (panel). *Climate change adaptation and resilience: The intersection of urban planning and public health*. CASCADES Summer Institute on Sustainable Health Systems, School of Public Health, University of Alberta.
- 47 2024, May (panel). *Circumpolar education program on environmental change and resilience*. UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, Arctic Congress, Bodo, Norway.
- 46 2024, March (guest lecturer). *The role of policy and planning in climate adaptation*. PLAN503: Masters Project Proposal, University of Alberta, Edmonton, Canada.
- 45 2024, February (panel). *Climate-health action talks*. Climate Change and Health Hub, Faculty of Health Sciences, University of Alberta, Edmonton, Canada.
- 44 2023, November (panel). *Impacts of climate change on critical infrastructure in the transportation sector and its interdependencies*. Senate of Canada, Standing Senate Committee on Transport and Communications. Ottawa, Canada.
- 43 2023, April (seminar). *Climate change and resilience in the North (Iceland + Canada)*. Seminar on climate change and resilience in the North, UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, Edmonton, Canada.
- 42 2023, March (symposium). *Local-scale planning for climate change disaster risk reduction: Enabling and constraining factors*. Natural Disasters Symposium, Edmonton, Canada. (w. Kehler, S).
- 41 2023, February (seminar). *Climate change and resilience in the North (Norway + Greenland)*. Seminar on climate change and resilience in the North, UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, Edmonton, Canada.
- 40 2023, January (guest lecturer). *The role of policy and planning in climate adaptation*. PLAN503: Masters Project Proposal, University of Alberta, Edmonton, Canada.
- 39 2022, November (seminar). *The importance of local-led climate adaptation in Yukon Communities: Mobilizing enablers and addressing barriers through a shift in governance*. Seminar on climate change and resilience in the North, UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, Edmonton, Canada. (w. Bonnett, N, Rose, D).
- 38 2022, November (seminar). *Climate change and resilience in the North (Canada + Mongolia)*. Seminar on climate change and resilience in the North, UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, Edmonton, Canada.
- 37 2022, September (seminar). *A research program for local-scale planning, climate change and resilience in the North*. Fulbright Arctic Initiative, Fulbright Canada, University of Alberta.
- 36 2022, May (seminar). *A research program for local-scale planning, climate change and resilience*. School of Planning, Dalhousie University.

- 35 2022, February (seminar). *Climate change and resilience in the North (Canada)*. Seminar on climate change and resilience in the North, UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, Edmonton, Canada.
- 34 2022, February (seminar). *Drivers for green infrastructure mainstreaming in northern land development: An evolutionary governance perspective*. Seminar on climate change and resilience in the North, UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, Edmonton, Canada. (w. Baran, N).
- 33 2022, February (seminar). *Misconceptions and maladaptation: Uncertainty in northern infrastructure expansion*. Seminar on climate change and resilience in the North, UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, Edmonton, Canada. (w. [Kehler, S](#)).
- 32 2022, January (guest lecture). *The role of policy and planning in climate adaptation*. PLAN503: Masters Project Proposal, University of Alberta, Edmonton, Canada.
- 31 2022, January (guest lecture). *Coastal communities in the Circumpolar North and the need for sustainable climate adaptation approaches*. Arctic Planning and Environmental Changes, Agricultural University of Iceland, Hvanneyri, Iceland. (w. [Bonnett, N](#)).
- 30 2021, Sept (panel). *Preparing for the PSB Professionalism Exam*. Professional Standards Board (for the Planning Professional in Canada). Ottawa, Canada.
- 29 2021, June (seminar). *Climate change impacts and responses in the Arctic (Canada)*. Seminar on climate change impacts and responses in the Arctic, UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, Edmonton, Canada.
- 28 2021, June (panel). *CONVERGE Extreme Events Research Check Sheets*. Natural Hazards Center. University of Colorado Boulder, Boulder, United States.
- 27 2021, April (seminar). *Climate change stressors and response in Dawson City, Yukon*. Seminar on climate change impacts and responses in the Arctic (Canada and Iceland), UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, Edmonton, Canada. (w. [Slater, T](#), [Korczewski, M](#)).
- 26 2021, April (seminar). *Climate change impacts and responses in the Arctic (Canada and Iceland)*. Seminar on climate change impacts and responses in the Arctic, UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, Edmonton, Canada.
- 25 2021, March (guest lecture). *Coastal communities in the Circumpolar North and the need for sustainable climate adaptation approaches*. Arctic Planning and Environmental Changes, Agricultural University of Iceland, Hvanneyri, Iceland. (w. [Bonnett, N](#)).
- 24 2021, March (seminar). *Climate change impacts and responses in the Arctic (Canada and Russia)*. Seminar on climate change impacts and responses in the Arctic, UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, Edmonton, Canada.
- 23 2021, January (seminar). *Climate change impacts and responses in the Arctic (Canada, Greenland, and Iceland)*. Seminar on climate change impacts and responses in the Arctic, UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, Edmonton, Canada.
- 22 2021, January (seminar). *Climate change resilience in the Canadian Arctic: The need for collaboration in the face of a changing landscape*. Seminar on climate change impacts and responses in the Arctic (Canada, Greenland and Iceland), UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, Edmonton, Canada. (w/ [MacDonald, S](#)).
- 21 2021, January (seminar). *Coastal communities in the Circumpolar North and the need for sustainable climate adaptation approaches*. Seminar on climate change impacts and responses in the Arctic (Canada, Greenland and Iceland), UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, Edmonton, Canada. (w. [Bonnett, N](#)).
- 20 2020, October (seminar). *Understanding decision dynamics behind local-scale climate change action: From climate impacts to adaptation in practice*. ATLAS Talk Series, University of Alberta, Edmonton, Canada.
- 19 2020, September (seminar). *The importance of being flexible: Research doesn't always go the way you expect!* Quick Response Research Workshop (PIII: After the research), Institute for Catastrophic Loss Reduction and the Natural Hazards Center.
- 18 2020, August (panel). Arts Orientation: Human Geography and Urban and Regional Planning. Faculty of Arts, University of Alberta.

- 17 2020, March (guest lecture). *Climate stressors and adaptation planning in Arctic coastal communities*. HGP452: Human Dimensions of Environmental Change, University of Alberta, Edmonton, Canada.
- 16 2020, February (keynote). *Environmental extremes and the role of decision-makers in facilitating community resilience*. Emergency Management Stakeholder Summit, Edmonton, Canada.
- 15 2020, January (guest lecture). *The role of policy and planning in climate adaptation*. PLAN503: Masters Project Proposal, University of Alberta, Edmonton, Canada.
- 14 2019 (panel). Integrating climate change into urban planning education and practice. UN Habitat - Planners for Climate Action. Nairobi, Kenya. Presented virtually.
- 13 2019 (seminar). *Local-scale planning, climate change and resilience*. 22nd Council of the University of the Arctic Meeting, Stockholm, Sweden.
- 12 2019 (guest lecture). *Local scale climate change impacts and resilience: The role of adaptation in policy and planning*. PLAN503: Masters Project Proposal, University of Alberta, Edmonton, Canada.
- 11 2018 (panel). Climate change resiliency Panel. PLACE 18 National Planning Students Conference. Edmonton, Canada.
- 10 2018 (panel). *Climate change and northern societies: Local scale challenges and resolve for action*. UAlberta North, University of Alberta, Edmonton, Canada.
- 9 2018 (panel). *Edmonton Prepares for Climate Change*. Cities and Climate Change Science Conference, EPCOR Stage. Edmonton, Canada.
- 8 2018 (seminar). *Low-lying coastal community risks: Lessons from Charlottetown, PEI*. Sustainability Research Centre, University of the Sunshine Coast, Sunshine Coast, Australia.
- 7 2017 (seminar). *Local scale climate vulnerability: The case of Nome, Alaska*. Conversations North Series, UAlberta North, University of Alberta, Edmonton, Canada.
- 6 2017 (guest lecture). *The challenges of climate change in northern coastal communities*. HGP452: Human Dimensions of Environmental Change, University of Alberta, Edmonton, Canada.
- 5 2015 (seminar). *Local government climate change resilience*. Dept. of Earth and Atmospheric Sciences, University of Alberta, Edmonton, Canada.
- 4 2012 (seminar). *Climate discourse & critical thought*. Georgian Bay Secondary School, Meaford, Canada.
- 3 2011 (seminar). *Comparative public sector carbon management*. PhD Speakers Series, University of Canterbury, Christchurch, New Zealand.
- 2 2010 (seminar). *Carbon neutrality and government organizations*. Centre for the Environment, University of Toronto, Toronto, Canada.
- 1 2010 (seminar). *Carbon neutrality and government organizations*. Faculty of Environmental Studies Speakers Series, York University, Toronto, Canada.

EXPERT INTERVIEWS/ RESEARCH PRESS

- 29 2025, January (academic), Folio, University of Alberta. New climate adaptation course fills knowledge gap for urban planners. Zoom interview (Adrianna MacPherson), Edmonton, Canada.
- 28 2024, February (academic), Contours Magazine, Faculty of Science, University of Alberta. Hot days in the city. Zoom interview (Elizabeth Chorney-Booth), Edmonton, Canada.
- 27 2023, December (academic), Folio, University of Alberta. Personal, political perceptions stall community action on climate adaptation: study. Zoom Interview (Bev Betkowski), Edmonton, Canada.
- 26 2023, January (news), CBC. Climate change and local resilience policy: Role of urban planning. Zoom interview (Christy Climenhaga), Calgary, Canada.
- 25 2022, November (academic), Folio, University of Alberta. Collaboration at all levels of government key to climate action, say researchers. Zoom Interview (Donna McKinnon), Edmonton, Canada.

- 24 2022, November (news), Globe and Mail. Climate change action: A broader look at cities across Canada. Phone Interview (Alanna Smith), Edmonton, Canada.
- 23 2022, November (news), St. Albert Gazette. Climate change and potholes: Road maintenance in Alberta. Email Interview (Jack Farrell), St Albert, Canada.
- 22 2022, February (academic), Faculty of Science (University of Alberta), Peter Lougheed Leadership College. INTD406: Science, Innovation and Leadership. Climate change impacts: SLR, erosion and displacement in the Arctic. Zoom interview (Liam Kachkar), Edmonton, Canada.
- 21 2022, January (news), CBC. Climate change and local resilience policy/action in Alberta and Saskatchewan. Zoom interview (Christy Climenhaga), Calgary, Canada.
- 20 2021, November (academic), Folio, University of Alberta. Understanding social vulnerability is critical for climate change adaptation: study. Zoom Interview (Andrew Lyle), Edmonton, Canada.
- 19 2021, October (news), Columbia Journalism Investigations, Columbia University. Climate change and local-scale disaster risk reduction. Zoom interview (Zak Cassel), New York City, USA.
- 18 2021, October (news), CBC's The National. Urban climate change. Phone interview (Carmen Merrifield), Toronto, Canada.
- 17 2021, February (news), Calgary Journal. The effect and value of declaring a climate emergency at the municipal level. Email interview (Noel Harper), Calgary, Canada.
- 16 2020, October (academic), UArctic. Thematic Network on Local-Scale Planning. Climate Change and Resilience (Kirsi Latola), Finland.
- 15 2020, July (news), CityTV. Climate change in Canada's largest cities. Phone interview (Megan Robinson), Toronto, Canada.
- 14 2020, July (academic), Wageningen University. Resilience, reinvention and transition during and after quarantine. Interview (Spresearch).
- 13 2020, June (academic), Department of Geography, University of Victoria. Producing the ethical planner: An exploration of subject formation. Zoom interview (Lindsay Chase, PhD Candidate), Victoria, Canada.
- 12 2020, June (academic), Faculty of Science - SCI299: Science Citizenship. Climate change adaptation and disaster risk reduction. Zoom interview (Lina Qin), Edmonton, Canada.
- 11 2019, November (academic), Faculty of Science, University of Alberta. New international network on climate change. Zoom Interview (Katie Willis), Edmonton, Canada.
- 10 2019, August (industry), Smart Cities Dive. Designing/ planning open space to improve urban resilience to seismicity. Phone interview (Kira Barrett), Washington DC, USA.
- 9 2019, June (industry), Spacing Magazine. Climate impacts and policy/ planning action across municipalities in Canada. (Phone Interview) (Steph Wechsler), Toronto, Canada.
- 8 2019, March (news), National Public Radio (NPR), KBBI Homer, AK. Local-scale climate change stressors and policy response in Homer, Alaska. Phone interview (Renee Gross), Homer, Alaska, USA.
- 7 2019, March (academic), North Alberta Institute of Technology, Student Research Project. Climate change adaptation and role of geomatics. In-person interview (Deborah Uwhaye), Edmonton, Canada.
- 6 2019, February (academic), Faculty of Science, University of Alberta. Losing ground to climate change in coastal communities. Interview (Katie Willis), Edmonton, Canada. .
- 5 2019, February (academic), Faculty of Science, University of Alberta. Designing for earthquakes: How public open spaces can improve survival. Interview (Katie Willis), Edmonton, Canada.
- 4 2018, November (news), The Star Edmonton. Edmonton's climate change adaptation and resilience plan. Phone interview (Hamdi Issawi), Edmonton, Canada.
- 3 2018, August (news), The Star Edmonton. Climate change and rising temperatures in Edmonton. Phone interview (Hamdi Issawi), Edmonton, Canada.
- 2 2018, March (news), St. Alberta Gazette. *Edmonton Prepares for Climate Change*. EPCOR Stage. In-person, Edmonton, Canada.

- 1 2017, March (research), Enhancing Synergies for Disaster Prevention in EU/ European Union's Horizon 2020 Research and Innovation Programme. Local-scale climate change. *Phone, Huddersfield, UK.*

Other Press (news spotlights)

- 20 2025, June, UArctic News. Thematic Networks Success Story: Supporting local resilience through education, collaboration and research dissemination.
- 19 2025, May, Canadian Chapter News, The Explorers Club (Fellow). Recently Published "Sometimes I just want to scream".
- 18 2025, January, UArctic News. Publication: Local planning for climate induced relocation: A systematic review.
- 17 2024, September, UArctic News. Bolstering community resilience through health-focused climate change adaptation: moving from talk to action in Western Canadian communities.
- 16 2024, May, UArctic News. Publication: Urban resilience through ecosystem services in Edmonton, Canada: An assessment of gaps and recommendations.
- 15 2024, May, UArctic News. Publication: Climate change adaptation planning: Breaking down barriers through comprehensive educational frameworks.
- 14 2023, September, Canadian Chapter News, The Explorers Club (Fellow). Key Elements of Defensible Space Land Use.
- 13 2023, August, UArctic News. Publication: Climate change adaptation: How short-term political priorities trample public well-being.
- 12 2023, June, Canadian Chapter News, The Explorers Club (Fellow). Perception of Risk and Responsibility Hinder Adaptation to Climate Change.
- 11 2023, June, UArctic News. Publication: Denial and discretion as a governance process.
- 10 2023, April, Fellows in the News, Fellows Journal, Royal Canadian Geographical Society. The influence of governance structure on local resilience.
- 9 2023, January, Fellows in the News, Fellows Journal, Royal Canadian Geographical Society. Fostering resilience and adapting to climate change in the Canadian North.
- 8 2022, October, Canadian Chapter News, The Explorers Club (Fellow). Climate change resilience and adaptation.
- 7 2022, October, UArctic News. Publication: Fostering resilience and adapting to climate change in the Canadian North.
- 6 2022, September, UArctic News. A community-driven education program on climate change in the Arctic.
- 5 2021, September, Fellows in the News, Fellows Journal, Royal Canadian Geographical Society. Social vulnerability and climate change adaptation.
- 4 2021, March, UArctic News. Local-scale Climate Resilience seminar series focuses on the climate change impacts and responses in the Arctic.
- 3 2020, February, Canadian Chapter News, The Explorers Club (Fellow). Local Planning. Climate Change and Resilience.
- 2 2019, December, UArctic News. UAlberta scientist to lead new Thematic Network on Local-Scale Planning, Climate Change, and Resilience.
- 1 2019, January, UArctic News. Three New Thematic Networks established in 2019.