

S. JEFF BIRCHALL, PhD, RPP, MCIP | Assistant Professor

Director | Climate Adaptation and Resilience Lab (CARL)

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

EDUCATION

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

ACADEMIC AND PROFESSIONAL APPOINTMENTS

<i>Rank/Position</i>	<i>Department</i>	<i>Institution</i>	<i>Year</i>
Associate Director	School of Urban and Regional Planning, Earth and Atmospheric Sciences	University of Alberta, Edmonton, Canada	2021(July)-
Associate Professor	Earth and Atmospheric Sciences	University of Alberta, Edmonton, Canada	2021(July)-
Assistant Professor (tenure-track)	Earth and Atmospheric Sciences	University of Alberta, Edmonton, Canada	2015-2021
Lead Researcher	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
Faculty Instructor (p/t)	School of Urban and Regional Planning	Ryerson 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

PUBLICATIONS

(Name - graduate students under my supervision)

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

- Papers in **refereed** journals (published) 21
 - Currently in revisions requested 2
 - Currently in review 2
- Chapters in **refereed** edited works 13

• Professional reports/ non-refereed Journals	9
• Book reviews	3

Google Scholar: <https://scholar.google.ca/citations?user=KffJRdgAAAAJ&hl=en>

Refereed Journals - Published

- 21 **Birchall, SJ., 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>.
• Journal Impact Factor: 3.8; Rank: 10/200, 95th percentile.
- 20 **Halabut, R., Birchall, SJ.** (in press). Wildfire risk and response in Jasper National Park, Alberta: Application of an adaptation readiness framework. *Canadian Geographer*.
• Journal Impact Factor: 1.14; Rank: 171/679, 74th percentile.
- 19 **McDonald-Yale, E., Birchall, SJ.** (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>.
• Journal Impact Factor: 1.9; Rank: 142/679, 79% percentile.
- 18 **Birchall, SJ., Bonnett, N.** (2021). Climate change adaptation policy and planning: The role of agents, institutions and systems. *Cities*, 108. <https://doi.org/10.1016/j.cities.2020.103001>.
• Journal Impact Factor: 4.85; Rank: 4/200, 98th percentile.
- 17 **Bonnett, N., Birchall, SJ.** (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>.
• Journal Impact Factor: 3.2; Rank: 32/210, 85th percentile.
- 16 van Asshe, K., Duineveld, M., **Birchall, SJ.**, 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>.
• Journal Impact Factor: 0.8; Rank: 50/181, 72nd percentile.
- 15 **Birchall, SJ.** (2020). Coastal climate adaptation planning and evolutionary governance: Insights from Alaska. *Marine Policy, Land and Sea Interaction Special Issue*, 112. <https://doi.org/10.1016/j.marpol.2018.12.029>.
• Journal Impact Factor: 3.2; Rank: 32/210, 85th percentile.
- 14 **Birchall, SJ., Bonnett, N.** (2020). Thinning sea ice and thawing permafrost: Climate change adaptation planning in Nome, Alaska. *Environmental Hazards*. 19(2), 152-170. <https://doi.org/10.1080/17477891.2019.1637331>.
• Journal Impact Factor: 1.36; Rank: 228/679, 66th percentile.
- 13 **MacDonald, S., Birchall, SJ.** (2019). Climate change resilience in the Canadian Arctic: The need for collaboration in the face of a changing landscape. *Canadian Geographer*, 1-5. <https://doi.org/10.1111/cag.12591>.
• Journal Impact Factor: 1.14; Rank: 171/679, 74th percentile.
- 12 **Birchall, SJ, Bonnett, N.** (2019). Local-scale climate change stressors and policy response: The case of Homer, Alaska. *Environmental Planning and Management*. 62(13), 2238-2254. <https://doi.org/10.1080/09640568.2018.1537975>.
• Journal Impact Factor: 2.08; Rank: 100/679, 85th percentile.
- 11 French, EL, **Birchall, SJ**, Landman, K, Brown, R. (2018). Designing open space for seismic resilience. *Disaster Risk Reduction*. <https://doi.org/10.1016/j.ijdrr.2018.11.001>.
• Journal Impact Factor: 2.56; Rank: 5/69, 92nd percentile.
- 10 **Birchall, SJ**, 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>.
• Journal Impact Factor: 1.46; Rank: 83/210, 60th percentile.
• Top 10 most accessed article from this source, 2016-2018.
- 9 **Birchall, SJ**, Murphy, M, Milne, M. (2016). Mixed methods research: A comprehensive approach for study into the New Zealand voluntary carbon market. *Qualitative Report*, 21(7), 1351-1365. <https://doi.org/10.7939/R3GF0N97Z>.
• Journal Impact Factor: 0.58; Rank: 163/1002, 83rd percentile.
- 8 **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*, 35(3), 142-156. <https://doi.org/10.1080/0969160X.2015.1061444>.
• Journal Impact Factor: 0.69; Rank: 82/154, 47th percentile.

- 7 **Birchall, SJ.** (2014). Structural challenges that contributed to the decline of the Communities for Climate Protection program. *Local Environment*, 22(9), 1061-1079. <https://doi.org/10.1080/13549839.2014.945404>.
• Journal Impact Factor: 1.84; Rank: 111/679, 83rd percentile.
- 6 **Birchall, SJ.** (2014). Qualitative inquiry as a method to extract personal experiences: Approach to research into organizational climate change mitigation. *Qualitative Report*, 19(75), 1-18. <https://doi.org/10.7939/R3BN9XH4R>.
• Journal Impact Factor: 0.58; Rank: 163/1002, 83rd percentile.
- 5 **Birchall, SJ.** (2014). New Zealand's abandonment of the Carbon Neutral Public Service program. *Climate Policy*, 14(4), 525-535. <https://doi.org/10.1080/14693062.2014.877224>.
• Journal Impact Factor: 4.79; Rank: 15/116, 87th percentile.
- 4 **Birchall, SJ.** (2014). Termination theory and national climate change mitigation programs. *Review of Policy Research*, 31(1), 38-59. <https://doi.org/10.1111/ropr.12056>.
• Journal Impact Factor: 1.25; Rank: 142/679, 76th percentile.
- 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*, 21(3), 253-267. <https://doi.org/10.1080/14486563.2013.878258>.
• Journal Impact Factor: 0.55; Rank: 238/679, 65th percentile.
- 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*, 20(1), 63-78. <https://doi.org/10.1080/14486563.2012.720455>.
• Journal Impact Factor: 0.55; Rank: 238/679, 65th percentile.
- 1 **Birchall, SJ.** (2006). Canadian sovereignty: Climate change and politics in the Arctic. *Arctic*, 59(2). <https://doi.org/10.14430/arctic334>.
• Journal Impact Factor: 1.17; Rank: 338/629, 46th percentile.

Refereed Journals - Revisions Requested

- 2 Bonnett, N., Birchall, SJ. The influence of regional strategic policy on municipal climate adaptation planning. *Regional Studies*.
• Journal Impact Factor: 3.3; Rank: 8/249, 96th percentile.
- 1 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, SJ.**, Stempel, P. Climate change adaptation in coastal small towns. *Ocean and Coastal Management, Coastal Small Towns Special Issue*.
• Journal Impact Factor: 2.6; Rank: 74/333, 77th percentile.

Refereed Journals - In Review

- 2 Van Asshe, K., **Birchall, SJ.**, Gruezmacher, M. Arctic and northern resilience: The need for local planning and design as resilience strategy. *Land Use Policy*.
• Journal Impact Factor: 3.5; Rank: 32/679, 95th percentile.
- 1 **Birchall, SJ.**, MacDonald, S. Proactive local-scale climate change action: The interrelated role of agents and institutions in building resilience. *Environmental Planning and Management*.
• Journal Impact Factor: 2.08; Rank: 100/679, 85th percentile.

Refereed Edited Works/ Chapters - Published

- 13 **Birchall, SJ.**, 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://converge.colorado.edu/resources/check-sheets>.
- 12 **Birchall, SJ.**, 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://converge.colorado.edu/resources/check-sheets>.
- 11 Bonnett, N., Birchall, SJ. (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://converge.colorado.edu/resources/check-sheets>.

- 10 **Birchall, SJ.**, MacDonald, S. (2019). Climate Change Impacts and Resilience: An Arctic Case Study. In WL. Filho, PG. Özuyar, PJ. 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.
- 9 **Macdonald, D, Birchall, SJ.** (2019). Immediate climate vulnerabilities: Climate change and planning policy in northern communities. In WL. Filho, PG. Özuyar, PJ. 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.
- 8 Singh, A, **Birchall, SJ.** (2019). Financial market services: Climate finance and climate change adaptation. In WL. Filho, PG. Özuyar, PJ. 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.
- 7 **Antonakis, V, Birchall, SJ.** (2019). Community planning challenges: Climate change impacts on cultural heritage. In WL. Filho, PG. Özuyar, PJ. 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.
- 6 **Heang, C, Birchall, SJ.** (2019). Community planning opportunities: Building resilience to climate variability using coastal naturalisation. In WL. Filho, PG. Özuyar, PJ. 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.
- 5 **Bonnett, N, Birchall, SJ.** (2019). Vulnerable communities: The need for local-scale climate change adaptation planning. In WL. Filho, PG. Özuyar, PJ. 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.
- 4 Down, C, **Birchall, SJ.** (2019). Climate change planning: Understanding policy frameworks and financial mechanisms for disaster relief. In WL. Filho, PG. Özuyar, PJ. 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.
- 3 Ball, A, Grubnic, S, **Birchall, SJ.** (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, SJ.** (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, SJ.** (2010). The Carbon Neutral Public Sector. In: Ball, A. and S. Osborn (Eds.), *Social Accounting and Public Management: Accounting for the Public Good*. London: Taylor & Francis.

Non-refereed Journals / Professional Reports - Published

- 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.

Book Reviews - Published

- 3 **Birchall, SJ.** (2014). Thinking with Water. *Canadian Journal of Environmental Education*, 19, 197-198.
- 2 **Birchall, SJ.** (2014). The Climate Modelling Primer (4th ed.). *International Journal of Environmental Studies*, 71(4), 581-582. <http://dx.doi.org/10.1080/00207233.2014.935211>.
- 1 **Birchall, SJ.** (2006). Managing Leviathan: Environmental politics and the administrative state. *Canadian Journal of Environmental Education*, 11(1), 230-231.

RESEARCH GRANTS/ SUPPORT

(TYPE: G: Government; F: Foundation; U: University. ROLE: PI: Principal Investigator; PA: Principal Applicant; CI: Co-Investigator; CA: Co-Applicant; LR: Lead Researcher; S: Supervisor). *Amount* in CAD\$.

Grantor	Purpose	Role	Type	Amount	Year
Mitacs Globalink (undergraduate internship); Bonn University	Research	PI/S	F	N/A	2021
Fulbright-Mitacs (undergraduate internship); University of South Carolina	Research	PI/S	F	N/A	2021
SSHRC - Insight Grant	Research	CA	G	490000	IN REVIEW
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 (internship)	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 (undergraduate internship); Northern Forestry University	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 Cornerstone Grant, University of Alberta	Research	PI	F/ U	43500	2016-2018

Dept. of Earth and Atmospheric Sciences, University of Alberta	Research	PI	U	2000	2016-2017
Ashley and Janet Cameron Research and Education Seed Fund, UAlberta North	Research	PI	U	3000	2016
Killam Research Fund, University of Alberta	Conference	PI	F/U	3200	2016
Dept. of Earth and Atmospheric Sciences, University of Alberta	Start-up Funding	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

PROFESSIONAL PLANNING RESEARCH/ ACTIVITIES

Ongoing

- 2021 Special Session Convenor + Co-Chair (w Agricultural University of Iceland, Iceland), Local environmental change and planning for resilience across the Arctic, UArctic Congress (2021, May), Reykjavík, Iceland (delivered online).
- 2018- Lead, Thematic Network on Local-Scale Planning, Climate Change and Resilience, University of the Arctic.
 - Manage/ lead development and on-going activities of the Network (eg. facilitate research collaborations/ knowledge dissemination; create and convene panels/seminars/ workshops; organize grant applications etc.); inc. 41 circumpolar collaborators, from across 29 institutions;
 - <https://www.uarctic.org/organization/thematic-networks/local-scale-planning-climate-change-and-resilience/>
- 2015- Director, Climate Adaptation and Resilience Lab, School of Urban and Regional Planning, Dept. of Earth and Atmospheric Sciences, University of Alberta.
 - Manage/ lead research group, supervise graduate students/ visiting scholars on research into coastal and big river community climate resilience: explore critical stressors and decision dynamics around adaptation planning/ policy (conception and action implementation); shed light on role planners play and the skills/ expertise they harness in order to help their community prepare for increasingly variable climate;
 - <https://www.ualberta.ca/earth-sciences/facilities/research-facilities.html>.

Past

- 2021 Co-Chair (w Agricultural University of Iceland, Iceland) + Organizer, Seminar series on climate change impacts and responses in the Arctic (Canada and Iceland), UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience (2021, April), University of Alberta (delivered online).
- 2021 Co-Chair (w University of Northern British Columbia, Canada) + Organizer, Seminar series on climate change impacts and responses in the Arctic (Canada and Russia), UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience (2021, March), University of Alberta (delivered online).
- 2021 Co-Chair (w Aalborg University, Denmark) + Organizer, Seminar series on climate change impacts and responses in the Arctic (Canada, Greenland and Iceland), UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience (2021, January), University of Alberta (delivered online).
- 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).

- 2020 Chair + Co-Organizer (w GAPSS), Local-scale Climate Resilience Seminar, UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience (2020, March), University of Alberta (inc. significant virtual component).
- 2019 Special Session Convenor, Climate change impacts and resilience planning, Canadian Association of Geographers (Western Division) Conference (2019, March), Victoria, Canada.
- 2018 Panel Convenor, Climate Change Resiliency, PLACE 18 National Planning Students Conference (2018, October), Edmonton, Canada.
- 2018 Special Session Convenor, Climate risks and resilience planning in Canadian coastal communities, Canadian Association of Geographers (Western Division) Conference (March), Edmonton, Canada.
- 2018 Session Convenor, Environmental and community challenges in rapidly changing polar coastal zones, POLAR 2018 Conference (2018, June), Davos, Switzerland.
- 2017-2020 Working Group on the Sustainable Development Goals, Inter-University Sustainable Development Research Program.

SERVICE - SCHOLARLY REVIEW

Ongoing

- 2020- Manuscript Reviewer, *Polar Record* (2), *Land Use Policy* (2), *Regional Environmental Change* (2), *Climatic Change* (1), *Canadian Journal of Urban Research* (1).
- 2017- Associate Editor, *Encyclopedia of the Sustainable Development Goals (Climate Action)*. Springer Nature.

Past

- 2020 Technical Reviewer, *Climate Science 2050: Advancing Science and Knowledge on Climate Change*, Environment and Climate Change Canada
- 2018-2020 External Grant Reviewer, Mitacs Accelerate program (2).
- 2016-2018 Manuscript Reviewer, *Energy Economics* (2), *Review of Policy Research* (1), *Journal of Cleaner Production* (4); *Climate Policy* (2).
- 2016-2017 External Grant Reviewer (2), Collaboration Regional Research Program, Asia-Pacific Network for Global Change Research.
- 2015-2019 Advisory Committee, Editorial Board, Science Bulletin, Asia-Pacific Network for Global Change Research.
- 2015-2016 External Grant Reviewer (1), Social Science and Humanity Research Council Insight Grant Applications.
- 2014-2017 External Grant Reviewer (3), Climate Adaptation Framework, Asia-Pacific Network for Global Change Research.
- 2013-2018 Manuscript Reviewer, *Journal of Mixed Methods Research* (1), *Australasian Journal of Environmental Management* (6), *Journal of Geography and Regional Planning* (5); *Mitigation and Adaptation Strategies for Global Change* (2).
- 2012-2017 External Grant Reviewer (12), Scientific Capacity Building/ Enhancement for Sustainable Development in Developing Countries Program, Asia-Pacific Network for Global Change Research.
- 2010-2013 Manuscript Reviewer, *Journal of Agricultural Sciences* (1), *Journal of Public Management Review* (1), *Journal of Ecology and the Natural Environment* (1), *Accounting, Auditing and Accountability Journal* (2), *Accounting Forum Journal* (1), *International Journal of Environmental Studies* (6).
- 2010-2014 Manuscript Reviewer, *Australasian Conference on Social and Environmental Accounting Research* (2010: Albury, AUS; 2012: Wollongong, AUS; 2014: Melbourne, AUS).
- 2010 Manuscript Reviewer, *Asia Pacific Interdisciplinary Research in Accounting Conference* (Sydney, AUS).

SERVICE - INSTITUTIONAL

Ongoing

- 2020- Undergraduate Specialization & Honours Adviser, School of Urban and Regional Planning, Dept. of Earth and Atmospheric Sciences, University of Alberta.
- 2017- MSc. Admissions Committee, School of Urban and Regional Planning, Dept. of Earth and Atmospheric Sciences, University of Alberta.

Past

- 2018-2021 Faculty of Science Representative, Arts Faculty Council, University of Alberta.
- 2020-2021 Adjudicator, Evaluation Committee, Undergraduate Research Initiative, University of Alberta.
- 2019-2020 Faculty Search Committee (Faculty Lecturer), Department of Earth and Atmospheric Sciences, University of Alberta.
- 2019-2020 Graduate Program Adviser, School of Urban and Regional Planning, Dept. of Earth and Atmospheric Sciences, University of Alberta.
- 2019 Faculty Search Committee (Assistant Professor, tenure-track), Department of Earth and Atmospheric Sciences, University of Alberta.
- 2017-2020 Faculty of Science Representative, General Faculties Council, University of Alberta.
- 2017-2019 MSc. Planning Advising Committee, School of Urban and Regional Planning, Department of Earth and Atmospheric Sciences, University of Alberta.
- 2016-2017 Brookfield Residential Visiting Scholar Committee, School of Urban and Regional Planning, Department of Earth and Atmospheric Sciences, University of Alberta.
- 2016-2017 BSc Planning Admissions Committee, School of Urban and Regional Planning, Department of Earth and Atmospheric Sciences, University of Alberta.

SERVICE - COMMUNITY

Ongoing

- 2021-2025 External Advisory Group for Climate Action, Agricultural University of Iceland.
- 2019- Internal Evaluation Committee, Thematic Network Leadership Team, UArctic Assembly.
- 2015- Adviser (informal), Climate change risks and adaptation planning, Local government decision-makers (municipal and district)/ stakeholders from across Canada (municipal).

Past

- 2020 Selection Committee, EcoCity Edmonton Grant (Infrastructure Acceleration/ Community Action Grant), Edmonton, Canada.
- 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 Sustainability Solutions Group.
- 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.

SUPERVISION

(S: Supervisor; Co-S: Co-Supervisor; SC: Supervisory Committee; DNF: did not finish; A-LE: Arms-length Examiner; SR: Second Reader)

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; ⁸Alberta Government Graduate Student Scholarship; ⁹Sustainability Scholar; ¹⁰Alberta Professional Planners Institute Scholarship; ¹¹SSHRC Doctoral Fellowship; ¹²President's Doctoral Prize of Distinction (University of Alberta).

*Course-based MSc. This capstone course includes a self-directed research paper or applied project involving advanced research and analysis on a major 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; 9 credits, including a proposal writing course. 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	Did not Finish	Completed	Total
• PhD	4		0	4
• MSc/ MA	4	2	16	22
• Thesis Defence Committee (external)	1		6	7
• Research Assistant	8		15	23
• Directed Study	0		12	12

Ongoing - Graduate Students

Year	Student	Degree	Research Area	Role
2021-	S. Kehler	PhD, Planning	<i>Climate change and planning for vulnerable communities</i>	S
2021-	A. Bafgeesh	PhD, Planning	<i>Effects of oil sands development on local ability to strategize</i>	SC
2021-	K. Villeneuve ¹	MSc, Planning*	<i>Assessing climate risk in vulnerable populations</i>	S
2021-	S. Adams ¹	MSc, Planning*	<i>Heritage planning and climate change resilience</i>	S
2021-	N. Baran ^{1,2,4,9}	MSc, Planning*	<i>Stormwater planning in the context of climate variability</i>	S
2020-	N. Polard-Yopek	MA, Human Geo	<i>First Nations wildfire evacuation partnership</i>	SC
2020-	F. Fazeli	PhD, Planning	<i>River valley design and wellbeing</i>	SC
2020-	N. Bonnett ^{7,11,12}	PhD, Planning	<i>Climate change relocation, integration in strategic planning</i>	S

Past - Graduate Students

Year	Student	Degree	Research Area	Role
2019-2021	T. Slater ¹	MSc, Planning*	<i>Planning for seismic resilience in Vancouver, BC</i>	S
2019-2021	J. Muffly ¹	MSc, Planning*	<i>Wildfire and planning for resilience - Alberta</i>	S
2019-2021	S. Kehler ¹	MSc, Planning*	<i>Critical exploration of social context of climate vulnerability</i>	S
2019-2021	S. MacDonald ^{1,9,10}	MSc, Planning*	<i>Climate change and planning for resilience - Alberta</i>	S
2019-2021	Spencer Aiken ¹	MSc, Planning*	<i>Planning for seismic resilience in Anchorage, Alaska</i>	S
2018-2020	R. Adhikari ¹	MSc, Planning*	<i>Role of coastal parks in insulating communities from enviro extremes: Point Pleasant Park, Halifax, NS</i>	S
2018-2020	E. Renchko ¹	MSc, Planning*	<i>Climate adaptation and resilience in Corner Brook, NL</i>	Co-S

2018-2020	R. Halabut ¹	MSc , Planning*	<i>Rising temperatures on forests and planning for their future</i>	S
2018-2020	N. Zangi ^{1,10}	MSc , Planning*	<i>Effects of mining industry on the Athabasca River</i>	S
2018-DNF	L. Anderson ²	MA , Human Geo	<i>Transportation planning</i>	S
2017-2019	N. Bonnett ^{2,3,4,5,6}	MA , Human Geo	<i>An analysis of the incorporation of climate change adaptation into strategic planning</i>	S
2017-2019	M. Chan ¹	MSc , Planning*	<i>An exploration of public-sector transportation programs and services for aging societies</i>	S
2017-2019	E. McDonald-Yale ¹	MSc , Planning*	<i>Improving campus design for wellbeing in northern climates</i>	S
2017-2019	D. Baikie ¹	MSc , Planning*	<i>Balancing conflicting demands of resource development and caribou conservation in NU</i>	S
2017-2019	D. Macdonald ^{1,6,8}	MSc , Planning*	<i>Exploring infrastructure adaptive readiness, Churchill, MB</i>	S
2017-2019	V. Antonakis ^{1,5,6,8,10}	MSc , Planning*	<i>Climate change adaptations and built heritage in Charlottetown, PE</i>	S
2017-2019	C. Heang ^{1,6,8,9}	MSc , Planning*	<i>Integration of climate adaptation using planning tools for coastal naturalization on Vancouver Island, BC</i>	S
2016-DNF	D. Gillespie ⁹	MA , Human Geo	<i>Town planning and rising seas in a Halifax Regional Municipality, NS</i>	Co-S

Thesis Defence (as external committee member; plus all those I supervise, noted above)

Year	Student	Degree	Institution	Role
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

Ongoing - Research Assistants

Year	Student	Activity	Role
2021-	S. Kehler	Researcher, Planning (Climate stressors/ vulnerability/ BC regional districts)	S
2021-	S. MacDonald	Researcher, Planning (Climate adaptation/ resilience/ Alberta)	S
2021 (May- Aug)	S. Rombach	Mitacs Globalink Undergraduate Intern (Bonn University, Germany), Planning (Resilient cities/ climate adaptation)	S
2021 (May- Aug)	V. Ponds	Fulbright-Mitacs Undergraduate Intern (University of South Carolina United States), Planning (Resilient cities/ climate adaptation)	S
2021-	N. Baran	Graduate Research Assistant, Planning (Climate adaptation/ BC cities)	S
2021-	K. Villeneuve	Graduate Research Assistant, Planning (Climate adaptation/ BC cities)	S
2021-	S. Adams	Graduate Research Assistant, Planning (Climate adaptation/ BC cities)	S

2020-	N. Bonnett	Senior Graduate Research Assistant, Planning (Coastal climate resilience)	S
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Past - Research Assistants

Year	Student	Activity	Role
2020-2021	T. Slater	Graduate Research Assistant, Planning (Climate adaptation/ big river/ Yukon)	S
2020-2021	M. Korczewski	Researcher, Planning (Climate adaptation/ Yukon)	S
2019-2021	S. MacDonald	Graduate Research Assistant, Planning (Climate adaptation/ Arctic)	S
2019-2020	Y. Du	Undergrad. Research Assistant, GIS (Climate resilience/ Arctic)	S
2019	Y. Parmar	Graduate Research Assistant, Planning (Climate change readiness/ Yukon)	S
2019 (Jul-Nov)	Z. Fan	Mitacs Globalink Undergrad. Intern (Northern Forestry University, China), Planning (Climate adaptation/ Yukon)	S
2019	V. Antonakis	Graduate Research Assistant, MOOC - Arctic Resilience - Community Planning and Development	S
2019 (May- Aug)	A. McPhee	Undergrad. Research Initiative Intern, Planning (Cartography/ Prairies)	S
2018-2019	N. Bonnett	Graduate Research Assistant, MOOC - Arctic Resilience - Community Planning and Development	S
2018-2019	S. MacDonald	Researcher, Planning (Climate stressors/ East coast/ Yukon)	S
2018-2019	D. Macdonald	Graduate Research Assistant, Planning (East coast/ climate adaptation)	S
2017-2018	N. Bonnett	Graduate Research Assistant, Planning (Coastal climate resilience - BC, NS)	S
2017-2018	D. Baikie	Graduate Research Assistant, Planning MOOC - Arctic Resilience - Community Planning and Development	S
2016-2017	C. Heang	Researcher, Planning (Coastal naturalization/ West coast/ Alaska)	S
2016	N. Bonnett	Researcher, Planning (Coastal climate resilience/ Alaska)	S

Directed Study Supervision

Year	Course	Students
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 & environmental change	1x MLA, Landscape Architecture (University of Guelph)

COURSES DEVELOPED AND TAUGHT

(G: Graduate; UG: Undergraduate)

University of Alberta, Edmonton School of Urban and Regional Planning/ Human Geography (2016-present)

Course	Level	Year
PLAN511: Advanced Professional Planning Practice and Ethics	G	2018-
PLAN500: Planning for Resilient Cities and Regions	G	2018-
PLAN598: Advanced Research Methods and Analysis	G	2017-
HGP399: Research Methods in Planning	UG	2016-
HGP410: Professional Planning Practice and Ethics	UG	2016-

Massive Open-Online Course (MOOC): Arctic Development (Community Planning, Resilience and Development)

- Co-developed course (2018-2020): subject matter expert, content developer/ writer; on-screen host; supervised graduate research assistants.
- Course Co-Instructor (2021-): <https://www.coursera.org/learn/arctic-development>

Ryerson University, Toronto School of Urban and Regional Planning (2008-2019)

Course	Level	Year
CPL845: Special Topics in Planning: Climate Change & Resilience Planning^	UG	2010-2019
PLE745: Special Topics in Planning: Climate Change & Critical Thought	UG	2009
PLG720a: Advanced Planning Studio - Sustaining Conservation Lands I: Public use and Recreation Plan	UG	2008
PLG720b: Advanced Planning Studio - Sustaining Conservation Lands II: Site Securement/ Protection Plan	UG	2008
PLG620: Advanced Planning Studio - Alternative Approaches to site Development that Reduce Urban Heat	UG	2008

NOTE: ^Delivered as a 1-week intensive during Spring term.

University of Canterbury, Christchurch Department of Management (2009-2011)

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

SOCIETY AFFILIATION/ PROFESSIONAL DESIGNATIONS

Member, Alberta Professional Planners Institute (RPP).	2021-
Member, Canadian Institute of Planners (MCIP).	2021-
Member, Arctic Sustainable Resources and Social Responsibility, UArctic Thematic Network.	2019-
Member, International Union for Conservation of Nature, Commission on Ecosystem Management.	2018-2021
Member, Association of Polar Early Career Scientists.	2017-
Member, International Sustainable Development Research Society.	2016-
Certified, Greenhouse Gas Inventory Quantification, Canadian Standards Association.	2012-2015
Member, New Zealand Institute of Chartered Accountants SIG on Climate Change and Sustainability.	2009-2013

HONOURS: ACADEMIC, SCHOLARLY AND PROFESSIONAL

Colleege of Fellows. Roval Canadian Geographical Societv.	2018-
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International Fellow, The Explorers Club.	2018-
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	2010
Royal Society of New Zealand Marsden PhD Scholarship (CAD\$150,000), University of Canterbury.	2009-2012

CONFERENCE PRESENTATIONS/ PROCEEDINGS

(Name - graduate student under my supervision)

- Birchall, SJ.** (accepted) (2021, May). *Local environmental change and planning for resilience across the Arctic*. UArctic Congress, Reykjavík, Iceland.
- 19 **Bonnett, N., Birchall, SJ.** (2021, March). *The influence of regional strategic policy on municipal climate adaptation planning*. Canadian Association of Geographers (Western Division) Conference, Lethbridge, Canada. Presented virtually by Bonnett.
- 18 **Birchall, SJ.** (2020, November). *Coastal climate adaptation planning and evolutionary governance: Insights from Alaska*. Conference on Ocean Governance: Action, insights and foreshadowing challenges. Bremen, Germany. Presented virtually.
- 17 **MacDonald, S, Birchall, SJ., Slater, T.** (2020, September). *Climate change resilience building: Finding balance in adaptation governance*. International Conference on Sustainable Development, New York City, United States. Presented virtually by MacDonald.
- 16 **Antonakis, V., Heang, C., Macdonald, D., Birchall, SJ.** (2018, October). *Local scale climate vulnerability and response: Insights from decision-makers in Victoria, British Columbia*. PLACE 18 National Planning Conference, Edmonton, Canada. Presented by Antonakis.
- 15 **Heang, C., Macdonald, D., Antonakis, V., Birchall, SJ.** (2018, October). *Local scale climate vulnerability and response: Insights from decision-makers in North Vancouver, British Columbia*. PLACE 18 National Planning Conference, Edmonton, Canada. Presented by Heang.
- 14 **Macdonald, D., Antonakis, V., Heang, C., Birchall, SJ.** (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. Presented by Macdonald.
- 13 **Birchall, SJ, Bonnett, N.** (2018, October). *Community scale climate vulnerability: The case of Surrey, British Columbia*. PLACE 18 National Planning Conference, Edmonton, Canada. Presented by Bonnett.
- 12 **Birchall, SJ.** (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.
- 11 **Birchall, SJ., Bonnett, N.** (2018, March). *Climate change risks and adaptation planning in coastal communities*. Canadian Association of Geographers (Western Division) Conference, Edmonton, Canada. Presented by Birchall.
- 10 **Bonnett, N., Birchall, SJ.** (2018, March). *Local scale climate vulnerability in Surrey, British Columbia*. Canadian Association of Geographers (Western Division) Conference, Edmonton, Canada. Presented by Bonnett.
- 9 **Gillespie, D., Birchall, SJ, Singh, A.** (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. Presented by Gillespie.
- 8 **Birchall, SJ.** (2017, December). *Climate change challenges and adaptation planning in northern communities: Lessons from Nome, Alaska*. Paper to be presented at the International Arctic Change Conference, Quebec City, Canada. Unable to attend.
- 7 **Birchall, SJ.** (2017, June). *Climate Change Adaptation Planning in Northern Communities: The Case of Nome, Alaska*. Canadian Institute of Planners Conference, Calgary, Canada.
- 6 **Birchall, SJ.** (2017, April). *Northern Community Climate Change Adaptation Planning: The Case of Homer, Alaska*. Arctic Science Summit, Prague, Czech Republic.

- 5 **Birchall, SJ.** (2016, September). *Climate change adaptation planning: Lessons from Nome, Alaska*. Livable Cities Forum, Halifax, Canada.
- 4 **Birchall, SJ,** Murphy, M, Milne, M. (2016, July). *The New Zealand voluntary carbon market: An investigation at the organizational level*. International Sustainable Development Research Society Conference, Lisbon, Portugal. Presented by Birchall.
- 3 **Birchall, SJ.** (2012, April). *Organizational involvement in carbon management*. International Research Society for Public Management Conference, Rome, Italy.
- 2 **Birchall, SJ,** Ball, A, Mason, I, Milne, M. (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. Presented by Birchall.
- 1 **Birchall, SJ,** Ball, A, Mason, I, M. Milne. (2010, December). *Environmental & economic benefits of the New Zealand Carbon Neutral Public Service program*. Australasian Conference on Social and Environmental Accounting Research, Albury, Australia. Presented by Birchall.

INVITED SPEAKING

(Name - graduate student under my supervision)

- 26 Invited Speaker (2021, April). *Climate change impacts and responses in the Arctic*. 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. (virtual seminar).
- 25 Guest Lecturer, w Bonnett, N (2021, March). *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 (virtual talk)
- 24 Invited Speaker (2021, March). *Climate change impacts and responses in the Arctic*. Seminar on climate change impacts and responses in the Arctic (Canada and Russia), UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, Edmonton, Canada. (virtual seminar).
- 23 Invited Speaker (2021, January). *Climate change impacts and responses in the Arctic*. 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. (virtual seminar).
- 22 Invited Speaker, w MacDonald, D (2021, January). *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, UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, Edmonton, Canada. Presented virtually by MacDonald.
- 21 Invited Speaker, w Bonnett, N (2021, January). *Coastal communities in the Circumpolar North and the need for sustainable climate adaptation approaches*. Seminar on climate change impacts and responses in the Arctic, UArctic Thematic Network on Local-scale Planning, Climate Change and Resilience, Edmonton, Canada. Presented virtually by Bonnett.
- 20 Invited Speaker (2020, October). *Understanding decision dynamics behind local-scale climate change action: From climate impacts to adaptation in practice*. ATLAS Talk Series, University of Alberta, Edmonton, Canada (virtual talk).
- 19 Invited Speaker (2020, September). *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 (virtual workshop).
- 18 Panelist (2020, August). Arts Orientation - Human Geography and Urban and Regional Planning. Faculty of Arts, University of Alberta (virtual webinar).
- 17 Guest Lecturer (2020, March). *Climate stressors and adaptation planning in Arctic coastal communities*. HGP452: Human Dimensions of Environmental Change, University of Alberta, Edmonton, Canada.
- 16 Keynote Speaker. (2020, February). *Environmental extremes and the role of decision-makers in facilitating community resilience*. Emergency Management Stakeholder Summit, Edmonton, Canada.
- 15 Guest Lecturer. (2020, January). *The role of policy and planning in climate adaptation*. PLAN503: Masters Project Proposal, University of Alberta, Edmonton, Canada.

- 14 Invited Speaker. (2019, November). Seminar - Integrating climate change into urban planning education and practice. UN Habitat - Planners for Climate Action. Nairobi, Kenya (delivered virtually).
- 13 Invited Speaker. (2019, September). *Local-scale planning, climate change and resilience*. 22nd Council of the University of the Arctic Meeting, Stockholm, Sweden.
- 12 Guest Lecturer. (2019, January). *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 Invited Panelist. (2018, October). Climate change resiliency Panel. PLACE 18 National Planning Students Conference. Edmonton, Canada.
- 10 Invited Panelist. (2018, May). *Climate change and northern societies: Local scale challenges and resolve for action*. UAlberta North, University of Alberta, Edmonton, Canada.
- 9 Invited Panelist. (2018, March). *Edmonton Prepares for Climate Change*. Cities and Climate Change Science Conference, EPCOR Stage. Edmonton, Canada.
- 8 Invited Speaker. (2018, March). *Low-lying coastal community risks: Lessons from Charlottetown, PEI*. Sustainability Research Centre, University of the Sunshine Coast, Sunshine Coast, Australia.
- 7 Invited Speaker. (2017, November). *Local scale climate vulnerability: The case of Nome, Alaska*. Conversations North Series, UAlberta North, University of Alberta, Edmonton, Canada.
- 6 Guest Lecturer. (2017, February). *The challenges of climate change in northern coastal communities*. HGP452: Human Dimensions of Environmental Change, University of Alberta, Edmonton, Canada.
- 5 Invited Speaker. (2015, June). *Local government climate change resilience*. Dept. of Earth and Atmospheric Sciences, University of Alberta, Edmonton, Canada.
- 4 Invited Speaker. (2012). *Climate discourse & critical thought*. Georgian Bay Secondary School, Meaford, Canada.
- 3 Invited Speaker. (2011). *Comparative public sector carbon management*. PhD Speakers Series, University of Canterbury, Christchurch, New Zealand.
- 2 Invited Speaker. (2010). *Carbon neutrality and government organizations*. Centre for the Environment, University of Toronto, Toronto, Canada.
- 1 Invited Speaker. (2010). *Carbon neutrality and government organizations*. Faculty of Environmental Studies Speakers Series, York University, Toronto, Canada.

INTERVIEWS/ PRESS

Expert Interviews

- 13 News Outlet, Calgary Journal. (February 17, 2021). The effect and value of declaring a climate emergency at the municipal level. Email interview (Noel Harper), Calgary, Canada.
- 12 UArctic. (October 8, 2020). Thematic Network on Local-Scale Planning, Climate Change and Resilience (Kirsi Latola), Finland. <https://vimeo.com/472913813/df47834924>.
- 11 News Outlet, CityTV. (July 23, 2020). Climate change in Canada's largest cities. Phone interview (Megan Robinson), Toronto, Canada.
- 10 Department of Geography, University of Victoria. (June 29, 2020). Producing the ethical planner: An exploration of subject formation. Zoom interview (Lindsay Chase, PhD Candidate), Victoria, Canada.
- 9 Faculty of Science - SCI299: Science Citizenship. (June 1, 2020). Climate change adaptation and disaster risk reduction. Zoom interview (Lina Qin), Edmonton, Canada.
- 8 Industry Magazine, Smart Cities Dive. (August 13, 2019). Designing/ planning open space to improve urban resilience to seismicity. Phone interview (Kira Barrett), Washington DC, USA.
- 7 Industry Magazine, Spacing Magazine. (June 14, 2019). Climate impacts and policy/ planning action across municipalities in Canada. (Phone Interview) (Steph Wechsler), Toronto, Canada.
- 6 National Public Radio, KBBI Homer, AK. (March 18, 2019). Local-scale climate change stressors and policy response in Homer, Alaska. Phone interview (Renee Gross), Homer, Alaska, USA.

- 5 North Alberta Institute of Technology, Student Research Project. (March 4, 2019). Climate change adaptation and role of geomatics. In-person interview (Deborah Uwhaye), Edmonton, Canada.
- 4 News Outlet, The Star Edmonton. (November 9, 2018). Edmonton's climate change adaptation and resilience plan. Phone interview (Hamdi Issawi), Edmonton, Canada.
- 3 News Outlet, The Star Edmonton. (August 8, 2018). Climate change and rising temperatures in Edmonton. Phone interview (Hamdi Issawi), Edmonton, Canada.
- 2 News Outlet, St. Alberta Gazette. (March 5, 2018). *Edmonton Prepares for Climate Change*. EPCOR Stage. In-person, Edmonton, Canada.
- 1 Research Centre, *Enhancing Synergies for Disaster Prevention in EU/ European Union's Horizon 2020 Research and Innovation Programme*. (March 29, 2017). Local-scale climate change. *Phone*, Huddersfield, UK.

Research Press

- 8 Local-scale Climate Resilience seminar series focuses on the climate change impacts and responses in the Arctic (2021): <https://www.uarctic.org/news/2021/3/local-scale-climate-resilience-seminar-series-focuses-on-the-climate-change-impacts-and-responses-in-the-arctic/>
- 7 Resilience, reinvention and transition during and after quarantine (2020): <https://centreforspaceplacesociety.com/2020/07/17/resilience/>
- 6 Local Planning, Climate Change and Resilience (2020): <https://mailchi.mp/95ecf2ff7e95/newsletter-february-2020>.
- 5 Three New Thematic Networks established in 2019 (2019): <https://www.uarctic.org/news/2020/1/three-new-thematic-networks-established-in-2019/>.
- 4 UAlberta scientist to lead new Thematic Network on Local-Scale Planning, Climate Change, and Resilience (2019): <https://www.uarctic.org/news/2019/12/ualberta-scientist-to-lead-new-thematic-network-on-local-scale-planning-climate-change-and-resilience/>.
- 3 New international network on climate change (2019): <https://www.ualberta.ca/science/news/2019/november/climate-change-resilience-network>.
- 2 Designing for earthquakes (2019): How public open spaces can improve survival: <https://www.ualberta.ca/science/science-news/2019/february/seismic-resiliency-design-earthquakes>.
- 1 Losing ground to climate change in coastal communities (2019): <https://www.ualberta.ca/science/science-news/2019/february/coastal-communities-climate-change>.

Last Modified: May 3, 2021