

## 2017–18 British Columbia fellows' biographies

**Noémie Boulanger-Lapointe, University of British Columbia**

*Hosted by the Ministry of Forests, Lands, Natural Resource Operations and Rural Development*

Noémie's research focusses on plant ecology and the integration of indigenous knowledge and community-based monitoring for a better understanding of terrestrial ecosystems. She recently completed a PhD in Geography at the University of British Columbia, where she studied arctic socio-ecological systems in relation to berry picking. Her research combined interviews with Inuit elders, remote-sensing analyses, and long-term biological monitoring.

During her graduate studies, she conducted extensive fieldwork throughout the Canadian Arctic and Greenland, and was involved in various outreach and education projects with high schools in Nunavut.

**Jessica Carriere, University of Toronto**

*Hosted by the Ministry of Children and Family Development*

Jessica Carriere holds a PhD in public policy from the University of Toronto and recently completed a postdoctoral fellowship at the University of Waterloo. Drawing on her research and experience with community-based agencies and think tanks, her work focuses on the transnational communication of public policy ideas from conception to implementation across government sectors, networks, and institutions, and examines their various outcomes at local levels of implementation.

During her graduate studies, Jessica worked at the University of Toronto's Neighbourhood Change Research Partnership, where she examined urban inequality in six cities across Canada. Later, her postdoctoral work explored international workplace disability policy as well as the health risks and opportunities provided by new forms of flexible and precarious labour that have emerged in the so-called sharing economy, such as those offered through Uber.

**Sara Elder, University of British Columbia**

*Hosted by the Ministry of Agriculture*

Sara has a PhD in Resources, Environment, and Sustainability and a Master of Resource Management and Environmental Studies from UBC. Her doctoral research uncovered various aspects of how governance of agri-food supply chains affects smallholder farmer food security and agricultural sustainability. She also established and chaired the Corporate Social Responsibility Network at UBC's Liu Institute for Global Issues.

Sara has worked at the International Labour Organization in Geneva, conducting research, writing policy, and providing technical input and training on food security and labour issues in both the agricultural sector and global supply chains. Her professional experience also includes international development work with communities in Africa and Latin America.



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**Maria Giammarco, University of Guelph*****Hosted by the Public Service Agency***

Maria holds a PhD in psychology and neuroscience from the University of Guelph, where her research focused on the interactions between long-term memory and visual attention, and their impacts on human behaviour. Maria holds a bachelor's in psychology and philosophy, and a master's in psychology, both from McMaster University.

Maria has worked as a researcher at the Council of Canadian Academies, as a research consultant with Dialectic Solutions, and as a course instructor at the University of Guelph. Her research interests include cognitive science, behavioural economics, and science policy.

**Emily Gray, University of British Columbia*****Hosted by the Ministry of Municipal Affairs and Housing and Emergency Management BC***

Emily completed her Master of Community and Regional Planning at the University of British Columbia. Her research focused on improving the resilience of Canadian communities to coastal hazards and climate change, resulting in recommendations for local governments considering retreat as an adaptation strategy.

Emily was selected as an international Climate Scholar by the Nippon Foundation-Partnership for the Observation of the Global Oceans, receiving training at the National University of Ireland. She gained additional research experience with Resilient Coasts Canada, through the Marine Environmental Observation Prediction and Response Network (an NCE) Most recently; she worked as co-investigator with the Justice Institute of British Columbia, researching youth involvement in community resilience for Public Safety Canada.

**Kathryn Jastremski, University of Waterloo*****Hosted by the Ministry of Forests, Lands, Natural Resource Operations and Rural Development***

Kathryn recently completed a PhD in Social and Ecological Sustainability at the University of Waterloo and holds a Master of Environmental Studies and a bachelor's in planning from the Université du Québec à Montréal and Université de Montréal, respectively. Her doctoral research examined pathways towards sustainability in communities impacted by the forestry crisis. Her research interests focus on best approaches to support complex decision-making for sustainability, with an emphasis on public involvement and collaborative processes.

During her graduate studies, Kathryn cumulated professional experiences at the municipal and regional levels. She has also worked as an environmental analyst at the Montreal Metropolitan Community to support the public consultation process related to, and assessment of, TransCanada's Energy East Pipeline Project.



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**Natalie Linklater, Carleton University*****Hosted by the Ministry of Agriculture***

Natalie holds a PhD in Environmental Engineering from Carleton University, where she specialized in advanced wastewater treatment. Her research applied molecular techniques to investigate the fate of bacteria after disinfection using ultraviolet light, both alone and in combination with chlorine-free chemicals such as hydrogen peroxide, peracetic acid, and ferrate.

As the Chair in Engineering with Carleton University's Women in Science and Engineering (CU-WISE) for several years, Natalie worked to develop and deliver programs for girls that coupled hands-on learning and peer-to-peer mentoring to encourage girls to become more familiar with engineering.

**Duncan Low, Simon Fraser University*****Hosted by the Ministry of Advanced Education, Skills and Training***

Duncan has a PhD in communication, as well as a Master of Urban Studies, from Simon Fraser University. He has completed extensive work with diverse cultural organizations across Canada and the UK and is experienced in analyzing and synthesizing arts-organization data, having undertaken similar projects on a local and national scale.

Duncan's thesis, *Federal Arts Policy 1957–2014: The Rhetoric & The Reality*, touches on the wealth of, and challenges in, using government data and information. His research has been published in the *International Journal of Cultural Policy*, the *Canadian Journal of Communication*, and *Canadian Theatre Review*. He has presented at conferences in Canada, the US, and Europe. In October 2017, McGill-Queen's University Press will publish *The Campbell Revolution? Power, Politics and Policy in British Columbia*, a chapter of which — on BC's creative industries— was authored by Duncan.

**Caelan Marrville, University of Alberta*****Hosted by the Ministry of Jobs, Trade and Technology***

Caelan received his PhD from the University of Alberta. As a researcher in the field of psychological linguistics, he is a strong proponent of cross-disciplinary investigation and understands the benefits of using multi-modal research designs. He has investigated the links between provincial government debate records and the social and financial state of the Alberta oil sands, and how perceived relationships between power and gender are shaped in the conception of language in a society.

Through his dissertation, he used an evidence-based approach to investigate how people interact with language and how it can be used in predicative modelling in the study of human behaviour. By combining experimental approaches from psychology with data analytics tools from computer science, he hopes to use evidence-based experimental research with big data in the investigation of complex, real-world issues.



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**Gillman Payette, University of Calgary*****Hosted by the Ministry of Advanced Education, Skills and Training***

Gill received a PhD in Philosophy from the University of Calgary and has since held Killam and Banting postdoctoral fellowships at Dalhousie University and UBC, respectively. He is now an honorary postdoctoral fellow at UBC.

Gill is a philosophical logician whose research publications concern how to deal with inconsistent information, the philosophical foundations of logic, and applying mathematical models to problems in ethics and the philosophy of action. His postdoctoral research has focused on developing systems to reason about collective action and responsibility, and how to use those reasoning systems to analyze social institutions. Gill's next paper concerns how to represent rights in logic, and how that representation relates to the impossibility theorems of Arrow and Sen. He is interested in applying these theoretical models to the practical pursuits of policy analysis.

**Jyoti Upadhyaya, University of Windsor*****Hosted by Emergency Management BC***

Jyoti completed her PhD at the University of Windsor, where she developed a Functionality-Survivability-Sustainability Framework to assess infrastructure by comprehensively incorporating management of resources, people, and change as determinants of resiliency and sustainability. As a postdoctoral fellow, Jyoti evaluated the city of Windsor's stormwater infrastructure through the Canadian Water Network-funded project; Knowledge Integration and Mobilization for Resilient, Sustainable Municipal Systems. In 2015, she received an honourable mention for the Thomas C. Keefer Medal for the best civil engineering paper by the Canadian Journal of Civil Engineering.

Jyoti is an adjunct professor at Brock University, where she also works on collaborative research on wetlands and water quality. Her background also includes planning, design, project management, program development, and service delivery of various infrastructure projects in the government and consulting sectors in Nepal and Canada. Jyoti serves on the joint climate-change committee of the Ontario Water Works Association and Water Environment Association of Ontario and is a member of the Canadian Network of Asset Managers.

