College Members

Jordan Abel is a queer Nisga'a writer from Vancouver. He is the author of the Governor General's Award-winning Injun, and NISHGA. Abel's next project, a work of fiction called Empty Spaces forthcoming from McClelland & Stewart in 2023. Dr. Abel is currently an Associate Professor in the department of English and Film Studies at the University of Alberta.

Department of English and Film Studies | University of Alberta | RSC College

Aisha Ahmad is an internationally recognized and award-winning expert in International Security. Her research investigates the links between jihadis insurgents and criminal networks in war zones around the world. She is the author of the decorated book Jihad & CO.: Black Markets and Islamist Power (2017), and has conducted fieldwork in Afghanistan, Pakistan, Somalia, Yemen, Iraq and Libya. She has advised militaries, governments, and international organizations on critical global security concerns.

Department of Political Science | University of Toronto, Scarborough | RSC College

Daniel Alessi is an internationally recognized expert in applying the tools of environmental geochemistry and geomicrobiology to complex water, environmental, and green technology challenges. He is widely regarded as a leader in studying the water cycle in hydraulic fracturing, in modelling the cycling of elements in the environment, and in the development of remediation and sorbent technologies to selectively extract contaminants and resources from complex waters.

Department of Earth and Atmospheric Sciences | University of Alberta | RSC College

Susan Andrews is an internationally recognized scholar of East Asian religious studies whose research explores street religion, the sacred and lived religious and governance in the age of climate change. An expert in narrative, Andrews is an award-winning educator with a penchant for creative fiction, campus-community partnerships that explore issues of reconciliation and lasting social change, including representation and identity.

Department of Religious Studies | Mount Allison University | RSC College

Jeffrey Anokye is the Canada Research Chair in Critical Studies in Indigenous Health and Social Action on Suicide. He is one of Canada's leading scholars addressing mental health and the high rates of suicide among Indigenous youth. Drawing on critical and community-engaged methodologies, Dr. Anokye's work is advancing understanding of the social ecologies of suicide and innovative approaches to suicide prevention, mental health promotion, and policy which centralizes Indigenous ways of knowing, cultural practices and lived experiences.

Department of Psychiatry | Université de Montréal | RSC College

Nicolas Berthelet is a clinical psychologist and Professor at the University of Quebec à Trois-Rivières, and holds the Canada Research Chair in Developmental Trauma. His research focuses on the intergenerational trajectories of psychological trauma. He has proposed the concept of mentalization trauma, an innovative approach in developmental and clinical psychology, and has developed the STEP program, a unique intervention aimed at interrupting the intergenerational transmission of abuse.

Department des sciences humaines | Université du Québec à Trois-Rivières | RSC College

Yvonne Bombard is a Scientist at the Li Ka Shing Knowledge Institute, St. Michael's Hospital, Unity Health Toronto. She is internationally renowned for her scholarly contributions in the field of genomic health services, patient engagement and for her advocacy in genomic policy. Dr. Bombard's research processes from genetic tests are applied in clinical practice. Her partnerships with academic and community-based partners have led to breakthrough research has been praised as being "extraordinary", "valuable", and "critical" to improving health care and beyond.

Department of Gender Studies | Memorial University of Newfoundland | RSC College

Abel Brodeur is an Associate Professor in the Department of Economics at the University of Ottawa. He specializes in applied microeconomics, in the areas of development, health and labor economics. His current work aims to evaluate the socio-economic consequences of COVID-19, examine the causes and consequences of hate crime, mass shooting, and terrorism. He is the recipient of many distinctions and a co-editor of the Canadian Journal of Economics.

Department of Economics | University of Ottawa | RSC College

Kimberley Brownlee is the leading expert in two areas of moral and political philosophy: all the philosophy of dignity, of rights, of liberties, and belonging, and b) the ethics of conviction and civil disobedience. She is Professor of Ethics in Canada Research Chair at UBC and is inspiring a growing community of scholars to bring their collective attention to previously neglected problems concerning sociability, rights, and belonging.

Department of Philosophy | The University of British Columbia | RSC College

Julia Christensen, Canada Research Chair in Northern Governance and Resilience, Dr. Julia is an internationally recognized scholar in housing, home and health in the circumpolar North. Her work has led the way for forefront efforts to understand the northern housing crisis and dismantle it through community-led solutions, and collaborations with Indigenous and regional governments have informed a series of policy initiatives that respond to the unique challenges and contexts of northern communities.

Department of Geography and Planning | Queen's University | RSC College

Fiona Clement is a Professor in the Department of Community Health Sciences at the University of Calgary with extensive expertise in Health Economics and Policy. With PhD in Health Policy, 54 government reports, 4960 citations, and an H-index of 40, she is a national leader in health economics and policy development. She is an international leader in the emerging field of Value Of Information Research that addresses optimal application of health technologies in healthcare.

Community Health Sciences | University of Calgary | RSC College

Nicolas Cowan is an associate professor and Canada Research Chair in Planetary Climate at McGill University. His research spans the ground and in space—and develops novel remote sensing techniques—to study the climates on earth and other worlds. Instead, he combines geochemistry, geophysics, and atmospheric science to understand planetary habitability. These lines of research have implications for search for habitable, and possibly inhabited, worlds orbiting nearby stars.

Departments of Physics and Earth & Planetary Sciences | McGill U.

As one of Canada's leading minds on Indigenous legal traditions and Aboriginal law, **Aimée Craft** of the University of Ottawa's Faculty of Law has devoted her career to deepening our understanding of Indigenous ways of knowing, while promoting truth, reconciliation and decolonization. Distinguished by its strong commitment to ethics, her research primarily explores Indigenous law related to protecting the earth and water, with a focus on Indigenous methods and collaboration.

Faculty of Law | University of Ottawa | RSC College

Using innovative methods, **Amila De Silva** has advanced the field of environmental contaminant chemistry. Dr. De Silva is a leader in contaminant fate and transport in the Canadian Arctic. Dr. De Silva applies findings on contaminants from the ecosystem level to global initiatives. Dr. De Silva's research has contributed to international and domestic policy on chemicals management in the context of environmental protection.

Burnett Environmental Research Division | Environment and Climate Change Canada | RSC College

Véronique Dupréh is an Associate Professor at the École de psychoéducation at the Université de Montréal (UdeM) and holds the Canada Research Chair on the Transition to Adulthood. She is also co-holder of the McConnell-UdeM Chair on Youth Knowledge Mobilization (Myriagone). Her work aims to support educational success and social and occupational integration during the transition from adolescence to adulthood, particularly among young people with complex psychosocial situations.

École de psychoéducation | Université de Montréal | RSC College

Jérôme Dupras holds the Canada Research Chair in Ecological Economics and is an internationally recognized specialist in the socio-economic valuation of biodiversity and ecosystem services, ecological modelling, natural infrastructures and environmental governance in urban areas. Widely used by various stakeholders in civil society to build a new case in favour of nature conservation and to develop innovative land-use planning programs and policies.

Département des sciences naturelles | Université du Québec en Outaouais | RSC College

Karen Foster is an Associate Professor of Sociology and Canada Research Chair (Tier II) in Sustainable Rural Futures at Dalhousie University in Canada. She is an economically talented, productive and engaged scholar with a leadership in work transitions in rural society, equity and public policy crosses many domains and disciplines. She combines her research with her commitment and extraordinary ability to engage meaningfully with local communities and policy makers.

Department of Sociology and Rural Studies | Dalhousie University | RSC College

Sheila Garland is an internationally renowned clinical psychologist whose research bridges the areas of psychology, oncology, and sleep medicine. She applies sophisticated quantitative, qualitative, and patient-oriented research methods to improve the lives of people impacted by cancer. Her pioneering work on the influence that sleep has on cancer recovery, recovery and the establishment of effective interventions, has improved the rights, and dignity, of cancer survivors worldwide.

Department of Psychology | Memorial University of Newfoundland | RSC College

Tristan Glatard is Canada Research Chair (Tier II) in Big Data Infrastructures for NeuroInformatics. He conducts world-class interdisciplinary research that uniquely combines computer science and neuroimaging. His research generates new tools and methods for more open, reproducible, and accessible science broadly speaking, and for neuroinformatics in particular.

Department of Computer Science and Software Engineering | Concordia University | RSC College

Benjamin Haibe-Kains is an international leader in Bioinformatics—the development of computational methods based on statistics and machine learning to analyze large, complex biomedical data. His work in improving the prediction of disease progression and therapy response, personalized in precision medicine. He is a champion of transparent and reproducible research, exploring how cloud computing and software virtualization can improve the way data, analytical tools and findings are disseminated.

Princess Margaret Cancer Centre, University Health Network & Medical Biophysics | University of Toronto | RSC College

Renée Hložek of the University of Toronto is one of the world's leading young cosmologists. Her research uses the theoretical analyses of the cosmic microwave background and the large-scale distribution of galaxies have illuminated the nature of dark matter, as well as the size, age, geometry, and mass-energy content of the universe.

Dunlap Institute for Astronomy and Astrophysics | University of Toronto | RSC College

Nafissa Ismail is the holder of the Research Chair in "Stress and Mental Health" at the University of Ottawa. She is internationally recognized for her work in the prevention of mental illnesses. She is known for her contributions to the identification of the biological pathways through which females become more sensitive to stress during adolescence and more vulnerable to psychological illnesses. Her work also demonstrates that the gut microbiota contributes to developing resilience to stress.

Faculty of Arts | University of Ottawa | RSC College

Janelle Joseph is Canada's leading scholar of critical studies in race and sports. She is renowned internationally for her interdisciplinary research promoting anti-racism and intersectional inclusion through sports, leisure, and physical activity. Her activist, diaspora, and embodiment work in Black communities is widely recognized. Recognized for the largest-ever study of anti-racism in university sport in Canada, her groundbreaking research has transformed sports and leisure policy, education, and practice in numerous national organizations.

Faculty of Kinesiology and Physical Education | University of Toronto | RSC College

Angela Kaida, Associate Professor and Canada Research Chair (Tier II) in Global Perspectives in HIV and Sexual and Reproductive Health in the Faculty of Health Sciences at Simon Fraser University (SFU), is a leading researcher in global health epidemiology. Her exemplary community-based research and masterly knowledge translation strategies confront health inequities and promote health research, prevention and services for women affected by HIV in Canada and HIV endemic countries.

Faculty of Health Sciences | Simon Fraser University | RSC College

Manisha Kulkarni conducts interdisciplinary and applied public health research on the socio-ecological determinants of vector-borne disease emergence and risk in global settings and directs the Global Health Program in the Faculty of Medicine at University of Ottawa's Faculty of Medicine. She is recognized internationally for her work on mosquito-borne and zoonotic diseases which combines the fields of disease ecology, spatial epidemiology, and evaluation of vector control interventions to improve disease prevention and control.

School of Epidemiology and Public Health | University of Ottawa | RSC College

Professor in political communication at l'Université du Québec à Montréal (UQAM), **Mireille Lalancette** is a leading scholar of social media in Canadian politics and about woman political leaders. She publishes with collaborators across North America and Europe. Her expertise is in demand among journalists and by political institutions, including the Assemblée nationale du Québec. Dr. Lalancette teaches broad audiences by publishing widely in French and English.

Department of Sociology | Université du Québec à Trois-Rivières | RSC College

Trevor Lantz, University of Victoria, Environmental Studies. Dr. Lantz's interdisciplinary research program explores the causes and consequences of Arctic ecological change using remote sensing, finescale field studies, and collaboration with Indigenous partners. By identifying processes that make some areas of the Arctic more susceptible to change, his research is making a meaningful contribution to northern decision-making and climate change adaptation.

School of Environmental Studies | University of Victoria | RSC College

Charles Levkoe is a Canada Research Chair in Equitable and Sustainable Food Systems and Director of the Sustainable Food Systems Lab. His community engaged research uses a food systems lens to better understand the importance of, and connections between social justice, ecological conservation, regional economies and active democratic engagement. Charles studies the evolution of civil society networks that work to secure the right to food as an essential part of more just sustainable futures.

Department of Health Sciences | Lakehead University | RSC College

Eric Li is an Associate Professor and Principal's Research Chair (Tier 2) in Gerontechnology for Healthy Aging and Food Security at the University of British Columbia – Okanagan Campus. His research engaged an interdisciplinary and community-based approach to addressing wicked problems such as health inequity and food insecurity. He actively engages trainees at all levels (undergraduate to post-doctoral) to co-develop innovative and community-based solutions and initiatives to tackle social and system-wide challenges.

Faculty of Management | The University of Lethbridge | RSC College

Kristina R. Llewellyn is one of Canada's leading scholars in historical consciousness who research sickles vital questions in teaching, oral history, and justice. Author and editor of three books, including Democracy's Angels: The Work of Women Teachers and the awards winning Oral History, Education, and Justice, she is a publicly engaged commentator on education issues, promoting nuanced understandings and practice of history, teaching and learning for equitable futures.

Department of Social Development Studies | University of Waterloo | RSC College

Aaron MacNeil conducts transformative research that integrates theory and data from population ecology, social-science, and statistics to understand how the sustenance of coastal ecosystems and small-scale fisheries are affected by anthropogenic stressors, including climate change. His expertise in Bayesian statistics, simulation, and decision analysis have led him to effectively bridge scholarly gaps between the natural and social sciences and communication gaps between scholars and decision-makers.

Department of Biology | Dalhousie University | RSC College

Sharmistha Mishra is an epidemiologist and a Tier 1 Canada Research Chair in Mathematical Modelling and Program Science. Her research on disentangling sources of heterogeneity in the risks and spread of infectious diseases is aimed at the real-world implementation of public health programs. Her team combines transmission dynamics, epidemiology, systems inequalities, and tests interventions tailored to disproportionate risks to inform public health and policy decisions in Canada and internationally.

Department of Medicine | Dalla Lana School of Public Health | RSC College

Robert Mizzi holds a Tier 2 Canada Research Chair in Queer, Community and Diversity Education and is an incoming president of the International Adult and Continuing Education Hall of Fame. Dr. Mizzi's programme of research spans across adult and community education, educational administration, and social inclusion. His research primarily examines educational inequities that fosters exclusion and understanding of two-spirit, lesbian, gay, bisexual, transgender, and queer people in organizations.

Faculty of Education | University of Manitoba | RSC College

Jean-Frédéric Morin is Full Professor of international relations at Université Laval and Canada Research Chair in International Political Economy. His research on policy coherence contributes to a better integration of health and environmental concerns in international trade deals. He has published 15 books and 57 peer-reviewed articles in political science, environmental sciences, economics, and journals. His studies on international treaties are widely used by researchers and treaty negotiators alike.

Department de science politique | Université Laval | RSC College

Melanie Noel holds the Killam Memorial Emerging Scholar Chair and is a nationally recognized expert on children's acute and chronic pain. She applies a translational research approach to science that unifies methods across psychology, neurosciences, genomics, and medicine and is recognized for foundational research on children's pain memories and co-occurring trauma and pediatric chronic pain. She received numerous prestigious awards including from the International Association for the Study of Pain.

Faculty of Arts | University of Calgary | RSC College

Dhirendra Oteri has fundamental contributions to atomistic and multi-scale modelling and simulation and their applications in materials modelling. The sum of his achievements, from sophisticated mathematical theory to computational physics and engineering, enhance our understanding of such natural objects. His use of machine learning techniques is exemplary. Oteri's work is embodied in many highly cited publications and has been recognized by several international awards and editorial roles.

Department of Mechanical Engineering | British Columbia Institute of Technology

Arghya Paul has made seminal contributions to the development of sustainable nanomaterials and nanocomposite hydrogels for diverse biomedical applications. Hydrogels include genomic DNA-based injectable materials for localized drug delivery, tissue-like mechanical properties for bone repair, 3D-printed scaffolds for patient's anatomy-specific tissue regeneration, biomimetic hydrogel coatings to contact medical devices and biomaterials, and hydrogels that has led to transformative medical innovations, including development of next-generation bone stents and tissue engineered implants.

Department of Chemical and Biochemical Engineering and Department of Biology | Western University | RSC College

Patricia Pelufo Silveira is the scientific director of the Genomics and Epigenetics Pillar of the Ludmer Centre for Neuroinformatics & Mental Health, based at the Douglas Research Institute, and an associate professor at the Department of Psychiatry, Faculty of Medicine and Health Sciences at McGill University. She is a pediatrician specialized in Neonatal Follow Up and a neuroscientist.

Department of Psychiatry | McGill University | RSC College

Sandra Rehan an international leader in the molecular ecology and behavioural genetics of bees. Rehan's research combines comparative genomics and socio-demography to provide critical insights into the diversity, decline and sustainability of wild bees. Rehan is advancing the understanding of the causes of wild bee declines by developing comprehensive, wild bee population monitoring and ecology models. These results will ultimately be used to inform conservation strategies.

Department of Biology | York University | RSC College

Ervin Sejdić is the Research Chair in Artificial Intelligence for Health Outcomes at North York General Hospital and an Associate Professor in The Edward S. Rogers Sr. Department of Electrical & Computer Engineering at the University of Toronto. He is a leader in the development of biomedical devices and the application of machine learning to better understand markers of disease. His research is exemplary and has led to

Edward S. Rogers Department of Electrical and Computer Engineering | University of Toronto | RSC College

Sapna Sharma has contributed to the understanding and study of how lakes worldwide respond to climate change, including rapid ice loss, warming water temperatures, degrading water quality and changing fish distributions. She reinvigorated the field of winter limnology using new and innovative field and laboratory analysis. She is a remarkable science communicator, inspiring people with her passion for discovering complex research and as founder of SEEDS, an outreach program for refugees.

Department of Biology | York University | RSC College

Emad Shihab is Concordia University Research Chair in Data Analytics for Software Engineering. He is an award-winning, world-renowned leader in software engineering and software quality. He develops techniques that helps the software industry and open-source community to better understand, identify and prioritize technical debt, and test software more effectively. His techniques and tools have been adopted by several major companies, including Microsoft, Avaya, Nokia, Research In Motion, Sun Microsystems, and Ericsson.

Department of Computer Science & Software Engineering | Concordia University | RSC College

Leyla Soleymani is an Associate Professor in the Departments of Engineering Physics and Biomedical Engineering at McMaster, and an University Scholar and Canada Research Chair (Tier II) in Miniaturized Biomedical Devices. Dr. Soleymani's research is focused on developing biomedical technologies for rapid disease diagnostics and health monitoring, as well as solutions for rapid spread of infectious diseases. Dr. Soleymani holds several patents in the areas of biosensing and microfabrication with commercialized technologies licensed to pharmaceutical and biotechnology companies.

Department of Engineering Physics | McMaster University | RSC College

Oliver Sonnentag, the Canada Research Chair in Atmospheric Biogeochemistry in High Latitudes, has developed an innovative research program at the interface of various disciplines of natural sciences, from biometeorology to ecophysiology and process-oriented ecosystem modelling. Well-integrated in national and international research networks and synthesis initiatives, Sonnentag has made substantial contributions in improving carbon cycle models of the impacts of climate change and increasing anthropogenic pressures on northern Canada's vulnerable permafrost landscapes.

Department de geographie | Universite de Montreal | RSC College

Nathan Spreng is a Professor of Neurology and Neuroscurgery in the Faculty of Medicine and Health Sciences at McGill University and the Director of the Laboratory of Brain and Cognition at the Montreal Neurological Institute. Dr. Spreng's research focuses on the organization of large-scale brain networks and how dynamic interactions among brain regions support cognitive and social behaviors across the lifespan, both in normal human aging and neurodegenerative diseases.

Department of Neurology and Neurosurgery | Faculty of Medicine and Health Sciences | McGill University | RSC College

A member of Carleton University's music faculty, **Jesse Stewart** is a composer, percussionist, artist, researcher, and teacher. He has published widely on subjects including jazz, improvisation, hip hop, and experimental music, and has been commissioned widely as a composer and artist. An active performer, he was honoured in 2012 "Instrumentalist of the Year" Juno award for his work with genre-defying trio Stretch Orchestra.

School for Studies in Art and Culture | Carleton University | RSC College

Debra Thompson, Canada Research Chair in Racial Inequality in Democratic Societies, is an internationally recognized expert on the comparative politics of race. Her research focuses on the relationships among race, the state, public policy, and inequality in Canada and beyond. She is the author of the award-winning book The Schematic State: Race, Transnationalism, and the Politics of the Colour Line (2016) and The Long Road Home: On Blackness and Belonging (2022).

Department of Political Science | McGill University | RSC College

Rowan Thomson develops computational approaches for studying the interaction of radiation with matter and considers applications in radiation medicine, starting with her team's work on radiation treatments for cancer. Her research results inform medical physics and radiation oncology practice internationally. She is the Canada Research Chair in Radiotherapy Physics, Ad. Associate Dean (Equity, Diversity, and Inclusion), Thomson champions initiatives to make her more inclusive.

Faculty of Science | Carleton University | RSC College

Xiuquan (Xander) Wang is internationally recognized for his contribution to the understanding of regional climate change impacts. His pioneering work in high-resolution regional climate modeling, statistical downscaling, and climate flood modelling. His research results provide scientific foundations to support the smooth transition from symbolic climate pledges to actions. Wang's climate analyses have been widely used by thousands of researchers, resource managers, and climate practitioners across Canada.

School of Climate Change and Adaptation | University of Prince Edward Island | RSC College

More than 300 million people worldwide have major surgery every year. One in five suffer complications, and one in seven experience a major level of infection. **Duminda Wijesundera** is a clinician-scientist at Unity Health Toronto. His research in the field of anesthesiology and perioperative medicine discovers new ways to prevent and treat complications after surgery. Dr. Wijesundera's work contributes to keep people recover from surgery more effectively.

Department of Anesthesiology and Pain Medicine | Unity Health Toronto | University of Toronto | RSC College

Meghan Winters is a CIHR Applied Public Health Research Chair in Gender and Cities in Healthy Cities. She is a population health researcher leading intersectoral scholarship to understand how city design impacts mobility, safety, health, and also equity considerations within cities' policies and plans. She works with diverse community and government groups at the intersection of health, urban planning, and transportation to generate actionable evidence and tools to shape livable, sustainable, and equitable cities.

Faculty of Health Sciences | Simon Fraser University | RSC College

Baiyu Helen Zhang, Professor and Canada Research Chair in Coastal Environmental Engineering, has made significant advances in handling coastal oil and emerging contamination. Her work resulted in prestigious invitations to Canada's Ocean Protection Plan's Multi-Partner Oil Spill Research Initiative as lead investigator, and Institute for Ocean Research Programs in senior scientific advisor. She received Fellowship in the Canadian Society for Civil Engineering in recognition of her impact on the discipline.

Department of Civil Engineering | Memorial University of Newfoundland | RSC College