The Royal Society of Canada | Class of 2023

FELLOWS

RSC SRC

COLLEGE MEMBERS

Fellows

ALUKO, Rotimi | Department of Food and Human Nutritional Sciences, University of Manitoba

Academy of Science

Rotimi Aluko, Professor and Tier 1 Canada Research Chair, has pioneered research on the production and use of novel food proteins as nutritional tools to maintain human health and prevent diseases. His groundbreaking work has established the structural and functional basis to facilitate the development of food-derived peptides as potent health-promoting agents. In 2022 he received the American Oil Chemists' Society Lifetime Achievement Award for Protein and Co-Product research.

ASOKAN, N. | Cheriton School of Computer Science, University of Waterloo

Academy of Science

Dr. Asokan is a leader in systems security, especially in the context of security protocols and security of mobile devices. He is widely acknowledged for his pioneering research on fair-exchange protocols, trusted device pairing, and mobile trusted execution environments that has had widespread impact both in academic research, including three books, and in real-world practice, leading to large-scale deployment.

BALOT, Ryan | Department of Political Science, University of Toronto

Academy of Arts and Humanities

Ryan Balot is widely regarded as one of the most talented, most intellectually ambitious, and most accomplished scholars currently working in the area of classical ethical and political thought. He is the author of three influential books on the thought of the ancient Greeks. Balot's work teaches us that we can continue to learn invaluable lessons from ancient democratic thought and experience.

BENGTSON, Jonathan | University Librarian, University of Victoria

Academy of Arts and Humanities

Jonathan Bengtson has been a library director in the UK, USA, and Canada over the past 25 years. He has helped develop innovative knowledge infrastructure that is transforming librarianship, open scholarship, and scholarly communication. Bengtson has extensive experience with digitization initiatives, helping to bring research collections to a global audience. He is founder of KULA: knowledge creation, dissemination, and preservation studies, and chair of the Canadian Coalition of Digital Heritage.

BENNETT, Elena | Department of Natural

Resource Sciences and the McGill School of Environment, McGill University

Elena Bennett is a world leader in ecosystem service science, synthesizing across disciplines to improve sustainable management of natural resources. Her pioneering body of work has led to a deeper understanding of the role of ecosystem service interactions, and the ways that human interaction with nature influences landscape resilience. She wants to know when and how human activity can enhance the integrity of complex landscapes rather than detract from it.

Academy of Science

BLOOM, Paul | Department of Psychology, University of Toronto

Paul Bloom is a cognitive scientist who studies how children and adults understand the world, with special focus on pleasure, morality, and art. He is past-president of the Society for Philosophy and Psychology, and co-editor of Behavioral and Brain Sciences. He has written for popular outlets like *The New York Times* and *The New Yorker*, and is the author of seven books, including *Psych: The Story of the Human Mind.*

Academy of Social Science

BRIAND, Lionel | Faculty of Engineering, University of Ottawa

Canada Research Chair (Tier 1) in Intelligent Software Dependability and Compliance at the University of Ottawa, Lionel Briand has led groundbreaking and impactful research in software engineering, contributing to scalable and effective methods for the verification and validation of

Academy of

software systems, as well as their quality assurance. His novel approaches, which rely on Artificial Intelligence, have enabled the design of intelligent solutions to ensure the reliability, safety and security of software systems.

Science

BROWN, Eric | Department of Biochemistry and Biomedical Sciences, McMaster University

Academy of Science

Eric Brown is a Distinguished University Professor at McMaster University in the Department of Biochemistry and Biomedical Sciences. He is known for a large body of top-flight research in antibiotic discovery. His research team is innovating in diverse areas of drug discovery using tools of chemical and systems biology to probe the complexity that underlies disease. He is especially curious about technology and discoveries with promise in creating breakthrough therapies.

CALCAGNO, Antonio | Department of Philosophy, King's University College

Academy of Arts and Humanities

An internationally renowned Continental philosopher, Antonio Calcagno specializes in social and political theory across multiple areas. His work in early Phenomenology focuses both on canonical thinkers and the archival and interpretive recovery of women philosophers who were foundational for the Phenomenological Movement. He has been a key figure in introducing contemporary Italian philosophy to the Anglosphere, and building on his scholarly work has developed a provocative new theory of "the impasse."

CAMBROSIO, Alberto | Department of Social Studies of Medicine, McGill University

Academy of Arts and Humanities

A professor at McGill University's Department of Social Studies of Medicine, Alberto Cambrosio's work focuses on the socio-material culture of biomedical practices, and in particular on the study of the application of modern bio-clinical techniques to the diagnosis and the therapy of cancer, the development of innovative cancer clinical trials, and the emergence of heterogeneous translational research networks of clinicians, researchers, patients, and pharmaceutical companies.

CARDIN, Michel | Département de musique, Université de Moncton

Academy of Arts and Humanities

Recognized as one of today's foremost lutenists, Michel Cardin has won international acclaim as a performer, teacher, musicologist and producer. His 12-CD set covering the complete works of the great master Silvius Leopold Weiss is recognized as a world reference, as evidenced by the rave reviews it received internationally. He has performed all over the globe, founded various ensembles and music festivals, and published musicological articles, in six languages, as well as several music scores, which are also considered world references.

CARRINGTON, Tucker | Faculty of Arts and Science, Queen's University

Tucker Carrington is a chemical physicist who develops and applies new methods for computing vibrational and ro-vibrational spectra, scattering cross sections and rate constants. The common theme of his research is understanding the motion of atoms. Many of the computational methods he has developed use iterative linear algebra techniques and exploit the structure of basis sets to make it possible to do calculations without storing or computing a Hamiltonian matrix.

Academy of Science

CAZORLA-SÁNCHEZ, Antonio | Department of History, Trent University

Academy of Arts and Humanities

Antonio Cazorla-Sánchez is an internationally recognized historian of political violence and dictatorship in 20th-century Europe, especially of the Spanish Civil War and the Francisco Franco regime. A prominent participant in the important public debates about Spain's difficult past and how it is remembered, he is well-known for his innovative contributions to public history, including co-founding and co-directing *Spanish Civil War: A Virtual Museum*, the world's first museum about the conflict.

CHAPMAN, Alison | Department of English, University of Victoria

Academy of Arts and Humanities

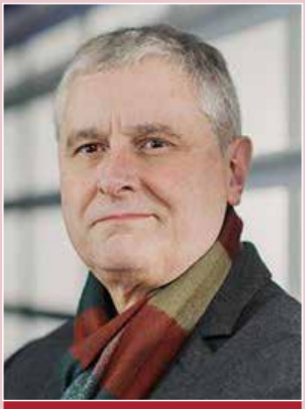
Alison Chapman is the leading scholar of Victorian poetry in Canada, with an exceptional international reputation for transforming the field. She has centred it within the study of nineteenth-century literature and culture, forged new methodologies and critical paradigms, and uncovered the work of many unjustly neglected and marginalized poets, particularly women. By embracing digital humanities, she has made Victorian poetry and poetics accessible.

CHAU, Tom | Institute of Biomedical Engineering, University of Toronto

Academy of Science

Tom Chau is a Senior Scientist at Holland Bloorview Kids Rehabilitation Hospital and a Professor in the University of Toronto's Institute of Biomedical Engineering. His research focuses on the development of novel access pathways for children and youth with severe physical impairments. Professor Chau's achievements include the development of novel non-invasive brain computer interfaces (BCIs), the establishment of the world's first pediatric BCI clinic, and several groundbreaking communications technologies.

CHEEK, Timothy | Department of History and School for Public Policy and Global Affairs, The University of British Columbia



Academy of Arts and Humanities

Historian Timothy Cheek commands international attention for his field-changing research into modern Chinese intellectuals and the Chinese Community Party. His global stature attests to first-rate scholarship characterized by a singular ability to make connections across disciplines and continents. Cheek's prodigious research, manifest in works like *The Intellectual in Modern Chinese History*, has bridged China's past and present, international scholarly communities, and the spheres of academia and public policy.

CHEN, Tongwen | Department of Electrical and Computer Engineering, University of Alberta

Academy of Science

Tongwen Chen, a Professor and Tier 1 Canada Research Chair in Intelligent Monitoring and Control at the University of Alberta, is internationally recognized in the field of Control Systems for his influential and groundbreaking research contributions to sampled-data control, multirate systems, networked control and event-triggered systems, and advanced alarm management and design. He is a Fellow of the Internationl Federation of Automatic Control and Institute of Electrical and Electronic Engineers.

CHENG, Frank | Department of Mechanical & Manufacturing Engineering, University of Calgary

Academy of Science

Frank Cheng is an internationally recognized leader in energy pipeline research. His innovative approaches to integrate advanced micro- and nano-electrochemical techniques with modern computational modeling open understandings into the microscopic world of pipeline corrosion. His defect assessment technique provides accurate diagnosis of pipeline performance conditions. He conducts game-changing work exploring hydrogen-steel interactions at an atomic scale and reinvigorates gaseous hydrogen embrittlement research, contributing to repurposing of existing natural gas pipelines for hydrogen transport.

COLIJN, Caroline | Department of Mathematics, Simon Fraser University

Academy of Science

Canada 150 Research Chair Caroline Colijn is an expert in mathematical modelling who has made fundamental contributions over 15 years to advancing understanding of the epidemiology and evolution of pathogens. Winner of the 2020 Radio Canada Scientist of the Year award, Colijn is one of Canada's most trusted authorities for conveying scientific research on the COVID-19 pandemic in ways that inform policy and build public trust in science.

COLLINS, Louis | Faculty of Medicine and Health Sciences, McGill University

Academy of Science

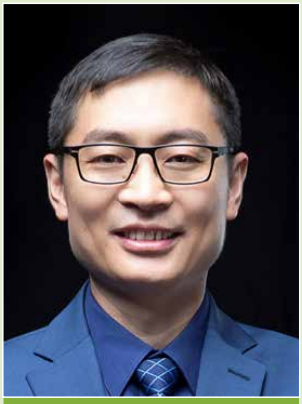
Louis Collins is a world authority in computational neuroimaging. He has made significant contributions in the development of innovative software tools to align, segment and analyze medical images. He invented original intra-operative ultrasound techniques to correct for brain shift in image-guided navigation in neurosurgery. He pioneered ground-breaking computational methodologies and mathematical modeling techniques to study the brain's structure and function using neuroimaging, predominantly in neurodevelopment and neurodegenerative disorders.

CÔTÉ, Isabelle | Department of Biological Sciences, Simon Fraser University

Academy of Science

Isabelle Côté transformed the understanding and conservation of marine ecosystems over three decades of pathbreaking research and science leadership. She laid the groundwork for rigorous empirical studies and overturned dominant assumptions through contributions to theory and methodology. Her findings present a comprehensive view of ecological change in these species-rich habitats. A skilled science communicator, she influences policy and practice for more effective management of tropical and temperate coastal ecosystems.

CUI, Shuguang | School of Science and Engineering, The Chinese University of Hong Kong, Shenzhen



Academy of Science

Shuguang Cui is a world-class researcher with contributions to the impactful communication system energy-profiling framework, efficient cooperative spectrum sensing algorithms, and AI vs. communication merging mechanism. He has established leadership in IEEE as committee chair and journal Editor-in-Chief. He is an IEEE Fellow and a Highly Cited Researcher.

DAUTENHAHN, Kerstin | Department of Electrical and Computer Engineering, University of Waterloo

Academy of Science

Kerstin Dautenhahn is full professor and Canada 150 Research Chair in Intelligent Robotics. She has pioneered research in social robotics and human-robot interaction, and published more than 400 articles in peer-reviewed journals and conferences. Her work is very interdisciplinary, at the intersection of robotics, psychology, computer science and assistive technology. In addition to understanding fundamental mechanisms of human-robot interaction, she is focusing on applications of assistive robot in education, therapy, as well as health and wellbeing contexts.

DAWSON, Jackie | Department of Environmental Geography, University of Ottawa

Academy of Social Science

Jackie Dawson is a Full Professor, Tier I Canada Research Chair in the Human and Policy Dimensions of Climate Change, and the Scientific Director of ArcticNet. An internationally-recognized leader in Arctic Studies, her interdisciplinary, collaborative research engages both Inuit communities and organizations, and also the public and private sectors. Her research has a significant influence on public policy, leading to innovative solutions to crucial issues impacting northern economic development and marine transportation.

DENOV, Myriam | School of Social Work, McGill University

Academy of Social Science

Myriam Denov is a Full Professor and Tier 1 Canada Research Chair in Children, Families and Armed Conflict at McGill University. Her work investigates the lasting effects of war on children and families. Through her use of participatory and arts-based research methods, her investigation of child soldiers, and the gendered realities of war, her work has opened up new lines of inquiry and drawn international attention to war-affected children.

DIATCHENKO, Luda | Faculty of Dentistry and Medicine, McGill University

Academy of Science

Luda Diatchenko has made seminal contributions to the field of human pain genetics identifying the pathophysiology of chronic pain, genetic markers for accurate diagnosis, and potential therapeutic targets. She pioneered a reverse genetic approaches in pain using human samples rather than animal models as a starting point for discoveries. These studies are helping us to understand how individuals develop pain and respond to therapies based on their genetic background.

DOBBS, Matt | Department of Physics, McGill University

Matt Dobbs has made ground-breaking contributions to astronomical instrumentation, inventing keystone technology that has made possible a new generation of millimeter and radio wavelength telescopes—notably CHIME and the South Pole Telescope. He has collaborated to use these instruments for some of the most important recent measurements in the fields of observational cosmology and fast radio transients. He leads or co-leads collaborations designing and building Canada's leading new astronomical facilities at these wavelengths.

Academy of Science

DRIEDGER, S. Michelle | Max Rady College of Medicine, University of Manitoba

S. Michelle Driedger is a Red River Métis scholar and an interdisciplinary academic leader bringing together science policy, risk communication, health geography, and decolonizing approaches to understanding how new and emerging risk and public health controversies develop in science, policy, and public forums. She evaluates how health risk communicators can better engage with public audiences to build trust to empower individuals to adopt recommended protective behaviours for themselves and their families.

Academy of Social Science

DUPUIS-BLANCHARD, Suzanne | École de science infirmière, Université de Moncton

Suzanne Dupuis-Blanchard is an expert who has gained worldwide recognition for her remarkable and innovative contributions to the field of aging. A pioneer in acknowledging the value of home care, particularly for French-speaking seniors in minority language communities, her most significant contributions range from her community health

Academy of Social Science

nursing practice innovations to her studies leading to the design of new and creative interventions. The quality and relevance of her work have been recognized by her peers, and the results of her research have had far-reaching impacts on our aging society.

EDELSTEIN-KESHET, Leah | Department of Mathematics, The University of British Columbia

Academy of Science

A leading researcher in Mathematical Biology, Leah Edelstein-Keshet served as the first woman president of its learned society (SMB). Her book (in the Society for Industrial and Applied Mathematics "Classic" series) is a favorite in the field, enjoyed by thousands of aspiring students. She uses mathematical models to probe the biological mysteries of how living cells polarize, migrate, interact, and self-organize collectively.

EMERY, Carolyn | Faculty of Kinesiology, University of Calgary

Academy of Social Science

Carolyn Emery is an injury epidemiologist and physiotherapist. She holds a Canada Research Chair in Concussion and is Chair of the Sport Injury Prevention Research Centre at the University of Calgary. Carolyn leads innovative and transdisciplinary research in the prevention and management of child and adolescent sport-related injuries, concussions, and their consequences. Her research has had significant public health impact globally in reducing injury burden through novel, effective, and sustainable injury prevention solutions.

FAHRNI, Magda | Département d'histoire, Université du Québec à Montréal

Academy of Arts and Humanities

Magda Fahrni, a historian at the Université du Québec à Montréal, has built an outstanding record of achievements. Her expertise in women's and family history, in the history of Montreal and in the social history of health is recognized internationally, and in particular in Quebec and English Canada. Her many and varied publications, major awards and numerous grants reflect her international reach and the outstanding quality of her research.

FARAJ, Samer | Desautels Faculty of Management, McGill University

Academy of Social Science

Samer Faraj (Canada Research Chair in Technology, Innovation and Organizing) is an internationally recognized management scholar recognized for his contributions to the study of expertise coordination in teams, online knowledge communities, complex collaboration in the workplace, and the transformative effects of emerging technologies on existing and novel forms of organizing. Currently, he is investigating collaboration and organizing within the Canadian healthcare sector, particularly exploring the potential of emerging technologies to enhance healthcare provision.

FOGEL, Joshua | Department of History, York University

Academy of Arts and Humanities

Historian Joshua Fogel is internationally renowned for pioneering the study of China and Japan together rather than treating them as separate entities. CRC in East Asian Studies from 2005 o 2019, his influential, prize-winning scholarship on the entangled histories of the two countries has appeared in English, Japanese and Chinese. A keen advocate of translation for knowledge sharing, he has translated 30+ volumes into English from Chinese, Japanese and Yiddish.

FORCHUK, Cheryl | Arthur Labatt Family School of Nursing, Western University

Academy of Social Science

Cheryl Forchuk is the Beryl and Richard Ivey Research Chair in Aging, Mental Health, Rehabilitation and Recovery, Parkwood Research Institute. She is a Distinguished University Professor at the Arthur Labatt Family School of Nursing (Western University) with a cross appointment to the Department of Psychiatry, Schulich School of Medicine and Dentistry. Dr. Forchuk uses participatory approaches to develop and test solutions including transitional discharge, technology in mental health care, poverty, housing, and homelessness. She has published 12 books and over 200 journal publications.

GÄNZLE, Michael | Department of Agricultural, Food and Nutritional Science, University of

Alberta

Michael Gänzle is a world-renowned scientist and Canada Research Chair in Food Microbiology and Probiotics, whose discoveries in such areas as the metabolism of different microorganisms, food fermentations, and food safety have had global and local impacts, ranging from fundamental science to the improvement of people's everyday lives. As a global leader, and his findings have improved food industry practices, created healthier foods, and improved food safety practices and regulations.

Academy of Science

GARNEAU, David | Department of Visual Arts, University of Regina

David Garneau (Métis) is a Professor of Visual Arts at the University of Regina. He is a painter, curator and critical art writer who engages creative expressions of Indigenous contemporary ways of being. Garneau has given keynotes in Australia, New Zealand, the United States, and throughout Canada. His paintings are in numerous public and private collections. He was awarded the Governor *General's Awards in Visual and Media Arts: Outstanding Achievement.*

Academy of Arts and Humanities

GERLAI, Robert | Department of Psychology, University of Toronto Mississauga

Robert Gerlai is Distinguished Professor of Behavioural Neuroscience at the Department of Psychology, University of Toronto Mississauga. He received his PhD in 1989, and held numerous academic and biotech industry leadership positions in Europe and North America before joining UTM in 2004. He is an award winning internationally

Academy of Science

renowned leader in behavioural genetics who is considered as the father of zebrafish behavioural neuroscience research, publishing well over 300 papers on this topic.

GERSTEIN, Hertzel | Department of Medicine, McMaster University

Academy of Science

Hertzel Gerstein is a trailblazing diabetes researcher at McMaster University who has helped transform diabetes into one of the most evidence-based fields in medicine. His transdisciplinary approach, and patient-informed clinical trials, focuses on links between diabetes, cardiovascular, cognitive, and renal outcomes, and has yielded novel insights into the prevention, remission and care of people with diabetes, and in the prevention of diabetes in those at greatest risk.

GREENWOOD, Margo | Department of Education, University of Northern British Columbia

Academy of Social Science

Margo Greenwood is an internationally recognized Indigenous scholar of Cree ancestry. She is a researcher and author with 30+ years' experience in health fields. A Professor at the University of Northern British Columbia, she has worked extensively in health research, particularly in Indigenous health and wellbeing, and has received many awards for her academic, community, and advocacy work. She is a Canadian Senator and Officer of the Order of Canada.

GROSJEAN, Sylvie | Département de communication, University of Ottawa

Academy of Social Science

International Francophonie Research Chair on Digital Health Technologies, Sylvie Grosjean is internationally recognized for her innovations in communication and health, particularly in the context of Canadian and international francophonie issues. She developed a co-design approach that contributes to the development of patient- and family-need-focused technological innovations, and her work on the use of telemedicine is helping to improve remote medical care practices.

HALVERSON, Galen Pippa | Department of Earth and Planetary Sciences, McGill University

Academy of Science

Galen Pippa Halverson is a stratigrapher, sedimentologist, and isotope geochemist who interrogates the sedimentary and stratigraphic record to infer geographic, tectonic, and environmental information about the ancient Earth. He is among the world's foremost expert on the era of Earth history between 1.7 and 0.6 billion years ago, an era that encompassed the assembly and disintegration of the supercontinent Rodinia and early diversification of eukaryotic organisms.

HATHAWAY, James Curtis | University of Michigan Law School

James Curtis Hathaway is the world's leading refugee law scholar. Over the past four decades, his voice has reshaped the way courts, policy makers, and scholars around the world understand refugeehood and the rights of refugees. Hathaway has devoted himself to social justice, in particular to ensuring that human rights inform how judges and policymakers around the world approach refugee protection. His scholarship has ensured Canada's leadership in this field.

Academy of Social Science

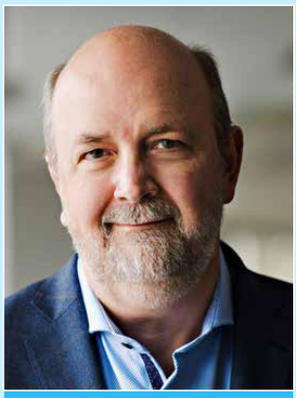
HIGGS, Eric | Department of Environmental Studies, University of Victoria

Eric Higgs's pioneering research on ecological restoration has been transformational for both scientists and practitioners and he has brought international public and policy focus to restoring damaged ecosystems. A global leader who has long championed interdisciplinary science in the study of complex environmental challenges, his long-term mountain-based restoration field research has built the largest systematic collection of historic and repeat mountain photographs in the world—a unique Canadian research platform.

Academy of Social Science

HIRDES, John | School of Public Health Sciences, University of Waterloo

John Hirdes is a University Professor in the School of Public Health Sciences, University of Waterloo. He is the senior Canadian Fellow and a Board Member of interRAI, an international consortium of researchers, clinicians and policy experts from over 40 countries. His primary areas of expertise include health assessment, mental health, aging, health



Academy of Social Science

services research, performance measurement, international comparisons, and quantitative research methods.

HODGINS, David | Department of Psychology, University of Calgary

Academy of Social Science

David Hodgins is one of the world's most eminent scholars of addiction studies whose influential work advances scientific inquiry and practice. His research and leadership in international initiatives have set directions in science and interventions for addictions, profoundly changing how scholars, practitioners, and policymakers understand the psychology of gambling. Hodgins' widely adopted treatment and relapse prevention interventions for gambling problems have helped thousands of individuals and their families worldwide.

HOROWITZ, Sara R. | Department of Humanities, York University

Academy of Arts and Humanities

Sara R. Horowitz is internationally renowned for her innovative scholarship on Holocaust literature and Jewish literature and culture. Her award-winning writing on the intersections of history, memory and imagination has fundamentally reshaped the ways that literary scholarship, historiography, and other disciplines understand narratives of testimony, trauma, and genocide. Her groundbreaking multidisciplinary work on gender and sexuality exerted a far-reaching effect on both Holocaust and Jewish studies and on cognate fields.

HUANG, Yonggang | Departments of Civil and Environmental Engineering and Mechanical Engineering, Northwestern University

Academy of Science

Yonggang Huang is the scientific pioneer of two transformative technologies—stretchable electronics, and mechanics-guided deterministic 3D assemblies. His vision laid the scientific foundations in these areas, leading to important applications in bio-integrated/bio-inspired electronics. The profound impact he has had on engineering science, including his seminal contributions to establishing microscale plasticity theory and extending classical continuum mechanics to the nano-scale makes him the highest cited solid mechanician in the world.

JOHNSON, Catherine L. | Department of Earth, Ocean and Atmospheric Sciences, The University of British Columbia

Academy of Science

Catherine Johnson is a global leader in studies of terrestrial and planetary magnetism. Catherine's work addresses fundamental questions related to how terrestrial planets and moons form and how their interiors function. Through key roles on science teams for NASA missions, she has pioneered studies of interactions among planetary magnetic fields, deep interior processes and the solar wind. Catherine is a Fellow of the American Geophysical Union and a member of the American Academy of Arts and Sciences and the National Academy of Sciences.

KAZIMI, Ali | Department of Cinema and Media Arts, York University

Academy of Arts and Humanities

Ali Kazimi is an internationally celebrated documentary filmmaker and media artist, whose work gives voice and visuals to the untold and complex stories of racialized and Indigenous peoples, exposing social and historical injustices. Known for his innovative use of found footage and stereoscopic 3D film, Kazimi's intimate portraits of these lived experiences, force us to confront the effects and legacy of colonialism and racism in Canadian society and beyond.

KESSELRING, Krista J. | Department of History, Dalhousie University

Academy of Arts and Humanities

Krista J. Kesselring's innovative scholarship embraces the disciplines of legal, social, and political history. The creativity, range, and scrupulosity of her research on such issues as the foundations of the modern state, the balance of punishment and clemency in political legitimacy, and the consideration of gender in the application of the law imaginatively contextualize issues of immediate relevance to our own times.

KOSCHINSKY, Marlys | Department of Physiology & Pharmacology, Western University

Marlys Koschinsky is recognized worldwide as a leading expert on the structure, metabolism and pathophysiology of lipoprotein(a). She is a highly respected thought leader and collaborates with diverse groups of global stakeholders. Prof.

Koschinsky has an outstanding track record in dissemination of her research through publications, invited presentations, and participation in formal scientific statements. She continues to contribute seminal findings to inform this important area of cardiovascular research.

Academy of Science

KODUR, Venkatesh | Department of Civil and Environmental Engineering, Michigan State University

Venkatesh Kodur, University Distinguished Professor at MSU, is an internationally recognized scholar and leader for his contributions in advancing fire safety science and civil engineering fields. This Royal Society of Canada Fellowship is in recognition of his outstanding contributions for enhancing fire safety in buildings and built infrastructure and his commitment for minimizing the destructive impact of fire, through outstanding research, extensive outreach, and effective deployment of advanced knowledge.

Academy of Science

LANIUS, Ruth | Department of Psychiatry, Western University

Ruth Lanius, Harris-Woodman Chair in Mind Body Medicine, is world renowned for her research in PTSD. Her group's research on defining and characterizing the brain underpinnings of PTSD subtypes has played an instrumental role in the addition of the dissociative subtype of PTSD to the most recent Diagnostic Statistical Manual in Psychiatry-5, which guides psychiatric assessment and treatment nationally and internationally. Her research team focuses on studying novel brain guided treatments for PTSD and translating science

Academy of Science

to inform clinical practice on a global level.

LEON-GARCIA, Alberto | Edward S. Rogers Sr. Department of Electrical and Computer Engineering, University of Toronto

Academy of Science

Alberto Leon-Garcia's pioneering research on integrating information flows paved the way for today's multiservice Internet. His prototypes and testbeds explore and validate virtualization methods for automated management of massive-scale infrastructures in telecom, power and transportation. His demand-response algorithms for power grids are stimulating research on pricing and incentives to reduce carbon footprint. His current focus on efficient and scalable analytics pipelines is transforming anomaly detection in IoT, operations, and cybersecurity.

LETOURNEAU, Nicole | Faculty of Nursing and Cumming School of Medicine, University of Calgary

Academy of Social Science

Nicole Letourneau, PhD RN FCAHS FAAN FCAN FRSC, is Professor in the Faculty of Nursing and Cumming School of Medicine, University of Calgary. She holds a Research Excellence Chair in Parent and Child Health, is Scientific Director of the Alliance against Violence and Adversity (AVA) CIHR Health Research Training Platform, and studies child mental health and development in the context of parental depression, violence and other early adversities.

LEYTON-BROWN, Kevin | Faculty of Science, The University of British Columbia

Academy of Science

Kevin Leyton-Brown is a professor of Computer Science and a Distinguished University Scholar at the University of British Columbia, a Canada CIFAR AI Chair at the Alberta Machine Intelligence Institute and an associate member of the Vancouver School of Economics. He received his PhD and M.Sc. from Stanford University (2003; 2001) and B.Sc. from McMaster University (1998). He studies artificial intelligence, mostly at the intersection of machine learning and (1) the design and operation of electronic markets and (2) the design of heuristic algorithms.

LI, Jonathan Jun | Faculty of Environment & Faculty of Engineering, University of Waterloo

Academy of Science

Jonathan Jun Li is an internationally recognized leader and authority in pointgrammetry and remote sensing. He pioneered the AI-based theory and technology to create high-definition maps using mobile LiDAR point clouds and earth observation images. His breakthrough research has advanced geomatics and 3D vision, shaping the development of autonomous driving and urban digital twins, and produced successful startups. He is a fellow of Canadian Academy of Engineering, Engineering Institute of Canada, and IEEE.

LOVE, Jennifer | Department of Chemistry, University of Calgary

Academy of Science

Jennifer Love received her PhD from Stanford University and was an NIH-funded postdoctoral fellow at Caltech. She is a Professor at the University of Calgary, after beginning her career at the University of British Columbia. She has received numerous awards and has served on numerous boards (currently President of the Canadian Society for Chemistry and Chair of the Editorial Board of Chemical Society Reviews). Her program spans the traditional boundaries of organic and inorganic chemistry. Her research program aims to discern the fundamental reactivity of late transition metal catalysts to develop new, cost-effective and low-waste reactions for the synthesis of new materials and pharmaceuticals.

LUGINAAH, Isaac | Department of Geography and Environment, Western University

Academy of Social Science

Isaac Luginaah, a Distinguished University Professor at Western University, is a global leader in environment and health research. His transdisciplinary research addresses how complex environmental issues are radically changing health landscapes in the face of increased burdens from environmental change, food systems and exposure in developed and developing countries. His path-making work in Africa and North America has made strong theoretical and methodological contributions, addressing environmental hazards and health inequities.

LUKE, Graeme | Department of Physics and Astronomy, McMaster University

Academy of Science

Graeme Luke is a Professor of Physics at McMaster University and an Affiliated Scientist at TRIUMF. Luke is a leading expert in the application of muon spin rotation/relaxation to the study of quantum matter. He has made important contributions to the study of high-temperature superconductors and identified broken time reversal symmetry in a variety of unconventional superconductors. His work on geometrically frustrated magnetism has identified new emergent magnetic states.

MacEACHERN, Alan | Department of History, Western University

Academy of Arts and Humanities

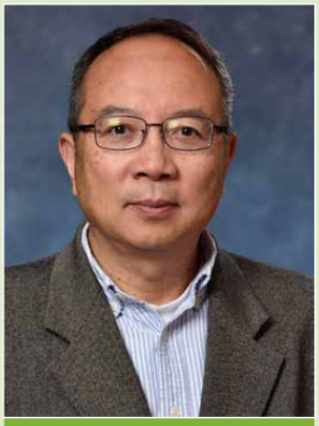
Alan MacEachern has been a leader in the field of environmental history nationally and internationally for the past quarter century. He was the founding director of NiCHE, a highly successful Canadian network for humanities and social science scholars working at the intersection of nature and history. A public-facing scholar who has written broadly for the popular press, he is also renowned for his scholarly writing on the history of Atlantic Canada and of national parks.

MACLURE, Jocelyn | Department of Philosophy, McGill University

Academy of Arts and Humanities

Jocelyn Maclure is recognized as both an internationally leading academic philosopher and one of the most relevant public intellectuals in the Quebec and Canadian public spheres. First known for his work in moral and political philosophy on the pluralism of values, public reason, human rights and cultural diversity, he has established himself as one of the main thinkers of secularism, laïcité and freedom of conscience and religion.

MAO, Scott X. | Department of Mechanical and Materials Science, University of Pittsburgh



Academy of Science

Scott X. Mao has made significant contributions on deformation physics and fracture mechanics of materials and is a pioneer in atomic scale experimental mechanics with over 300 publications, and 100 plenary, keynote, and invited talks. He serves as editor in-chef and editor of two international journals. He has been honored by awards of the fellow of Canadian Academy of Engineering, APS, IAAM, ASME, Vebleo and the John Swanson Endowed Professor.

MARTIN GINIS, Kathleen | Department of Medicine, The University of British Columbia

Kathleen Martin Ginis is the international authority on physical activity behaviour-change interventions and psychosocial outcomes in people with disabilities. Her innovations in theory, measurement, intervention design and knowledge-translation are used worldwide. She has led international teams that have developed, tested, published and implemented hundreds of evidence-based tools and programs, while advancing scientific rigour and understanding of physical activity behaviour among people with disabilities.

Academy of Social Science

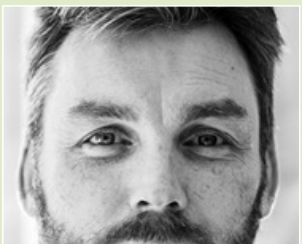
McTAVISH, Lianne | Department of Art & Design, University of Alberta

Lianne McTavish is internationally acclaimed for investigating the complexity of the visual realm. Her analyses of seeing as an embodied, historical, and cultural activity have transformed multiple disciplines, including the history of medicine, critical museology, and cultural studies of health and fitness. When working collaboratively with diverse colleagues, she has participated in creative research projects that both challenge and reshape understandings of illness, disability, gender, class, and settler-colonial identity.

Academy of Arts and Humanities

MOFFAT, Jason | Department of Molecular Genetics and Institute for Biomedical Engineering, University of Toronto

Jason Moffat is a world leader in functional



genetics and genomics. His work focuses on developing technologies and analytical approaches to systematically explore human gene functions. His research involves interdisciplinary science that includes quantitative experimental biology, computational biology, bioinformatics, and models of disease. His lab has developed gene perturbation resources to catalog essential genes, genetic interactions and drug-gene interactions in order to identify therapeutic targets for both rare and complex diseases.

Academy of Science

MORIN, Michel | Faculté de droit, Université de Montréal

Having deconstructed historiographical clichés that had gained currency over the years, Michel Morin has renewed our view of the relationship established between Indigenous and European legal traditions since they first came into contact, including of the sovereignty disputes that ensued, and our ways of analyzing the complex evolution of the law in New France and Quebec following the British conquest. His work brought a new perspective to the study of law in Canada and the Americas, and has had a profound international impact.

Academy of Social Science

MYRE, Nadia | Department of Studio Arts, Concordia University

Nadia Myre is a member of the Kitigan Zibi Anishinabeg First Nation and the Canada Research Chair in Indigenous Arts Practice at Concordia University. An interdisciplinary artist and educator,

Myre considers how Aboriginal presence, worldviews, and contributions to contemporary society can be foregrounded in the public realm. In the hope of reconciliation, she asks what stories and histories need to be recollected and shared to shore our collective memory against the amnestic colonial narrative.

Academy of Arts and Humanities

NEEL, Benjamin G. | Department of Medicine, New York University

Benjamin G. Neel is Director of Perlmutter Cancer Center and Professor of Medicine at NYU Langone Health. He has made multiple contributions to signal transduction, cancer cell biology, and mouse models of disease. He co-discovered oncogene activation by slowly-transforming retroviruses, established the roles of several protein-tyrosine phosphatases and their binding proteins in cancer, diabetes/obesity, developmental disorders and inflammation/auto-immunity, and advanced Canadian Science as Director of the Princess Margaret Cancer Centre.

Academy of Science

OEGEMA, Gerbern S. | School of Religious Studies, McGill University

Gerbern S. Oegema studied Biblical Studies, Jewish Studies, and Religious Studies in Amsterdam, Jerusalem, Berlin and Tübingen. He has taught and lectured in Europe, Israel, the United States and Canada. He is currently Professor of Biblical Studies in the School of Religious Studies at McGill University. He specializes on Second Temple Judaism and Christian Origins and is the author of more than twenty books and co-editor of several

Academy of Arts and Humanities

book series.

OZA, Amit | Department of Medical Oncology, University of Toronto

Academy of Science

Amit Oza has dedicated his career to women diagnosed with gynecologic cancers that affect the female reproductive tract and has led or participated in more than 100 trials. This work resulted in the clinical approval and use of precision medicine drugs (antiangiogenics and PARP inhibitors) in ovarian cancer in Canada and internationally. His research has uncovered biology driving treatment resistance and continues to shape drug development efforts.

PAI, Madhukar | School of Population and Global Health, McGill University

Academy of Science

Madhukar Pai is a Canada Research Chair in Epidemiology and Global Health at McGill University. His innovative, multi-disciplinary research on improving the care of tuberculosis has informed many national and international policies. His ground-breaking work on patient-centered assessment of quality of care in low- and middle-income countries has now been adapted in many countries. He is a passionate advocate for addressing inequities and power asymmetries in global health.

PAUL, Lissa | Department of English Language & Literature, Brock University

Academy of Arts and Humanities

Lissa Paul is the director the PhD Programme in Interdisciplinary Humanities at Brock University. Her attention to the small and the overlooked has resulted in high-impact projects in multiple disciplines including poetry for children, the foundational scholarly apparatus for studies in children's literature, the recovery of histories of 19th Century Barbadian fugitive enslaved people, and the transnational life and letters of forgotten 18th Century British author and teacher Eliza Fenwick.

PAUS, Tomáš | Département de psychiatrie et d'addictologie et Département de neurosciences, Université de Montréal

Academy of Science

Tomáš Paus is a neuroscientist with a life-long interest in the functional and structural organization of the human cerebral cortex, and in the forces shaping developmental trajectories of brain health. He pioneered the combined use of brain stimulation and brain imaging to study neuronal connectivity, and he laid down the conceptual and practical framework for population neuroscience, a new discipline that combines neuroscience with epidemiology and genetics.

PEPLER, Debra | Department of Psychology, York University

Academy of Social Science

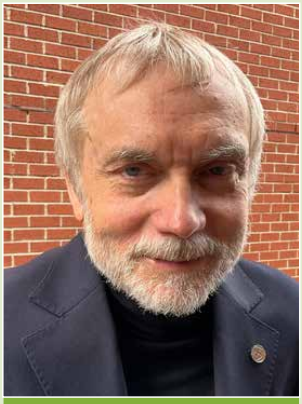
Debra Pepler is a Distinguished Research Professor of Psychology at York University. Her innovative observational research has profoundly changed understanding of children's aggression, bullying, and relationships. Her research within clinical, educational, and Indigenous community settings highlights the importance of healthy relationships for healthy development. Through partnerships, she has translated science into practice, programming, and policy to improve the lives of children and youth in Canada and around the world.

PINEAU, Joëlle | School of Computer Science, McGill University

Academy of Science

Joëlle Pineau has made deep, prolific and impactful contributions to machine learning and reasoning and planning under uncertainty, developing theoretical and algorithmic foundations, as well as innovative applications in a wide range of sectors including personalized and robotassisted healthcare and human-computer interaction. Professor Pineau is a leader of her international research community, whose work has significantly improved experimental machine learning practice, and a champion of responsible artificial intelligence.

RAK, Janusz | Department of Pediatrics, McGill University



Academy of Science

Janusz Rak introduced a new dimension into cancer studies by demonstrating that oncogenic molecules may propagate throughout tumour microenvironment, and systemically, as cargo of extracellular vesicles (exosomes). His work links intracellular cancer causation to multicellular host tissue responses, including vascular pathologies, such as tumour-associated angiogenesis and thrombosis, and provides the basis for using exosomes in liquid biopsy and molecular diagnosis of cancer. He holds Jack Cole Chair in Pediatric Hematology/Oncology.

RIOUX, Michèle | Département de science politique, Université du Québec à Montréal

Academy of Social Science

Michèle Rioux is a Full Professor at the UQAM's Faculty of Political Science and Law Department of Political Science. Director of the Centre d'études sur l'intégration et la mondialisation, she is internationally recognized as an expert in the political economy of globalization. She has published numerous books and scientific papers—the impact of which speak to the quality of her research—while developing dynamic research partnerships with different practitioners in the industry, trade unions, as well as governmental and international organizations.

ROTIN, Daniela | Department of Biochemistry, University of Toronto

Academy of Science

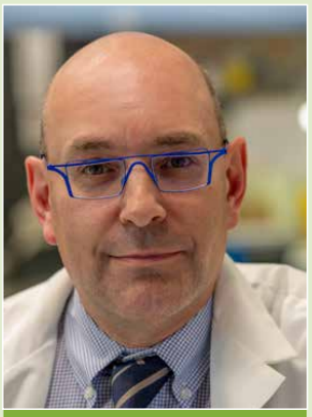
Daniela Rotin is a world leader in membrane proteins and their regulation by the ubiquitin system, which controls protein degradation. Her work has illuminated how ion channels, ion transporters, and growth factor receptors are eliminated when required, to ensure normal animal development and health throughout life. Her cutting-edge research revealed that aberrant regulation of these membrane proteins by the ubiquitin system leads to diseases such as hypertension and cancer.

SANDRED, Örjan | Desautels Faculty of Music, University of Manitoba

Academy of Arts and Humanities

Örjan Sandred is a Swedish-Canadian composer and is since 2005 a Professor of Composition at the University of Manitoba in Canada where he founded Studio FLAT—a studio for Computer Music research and production. He taught composition at the Royal College of Music in Stockholm 1998-2005. In 2016 he was a DAAD visiting professor at Hochschule für Musik Detmold in Germany. In 2022 he was awarded a fellowship from the John Simon Guggenheim Memorial Foundation.

SCHIMMER, Aaron | Princess Margaret Cancer Centre, University Health Network, University of Toronto



Academy of Science

Aaron Schimmer is an international authority in cancer research focused on blood cancers known as leukemia. Through multiple pioneering discoveries, he has demonstrated how mitochondrial and metabolic pathways influence the development and progression of acute myeloid leukemia.
As a clinician-scientist, he has translated these breakthroughs into the clinic by launching early phase clinical trials to evaluate new treatments for the disease.

SCOTT, Daniel | Geography and Environmental Management, University of Waterloo

Academy of Social Science

Daniel Scott is a globally recognized and respected researcher regarding sustainable tourism and climate change. He has influenced policy outcomes at municipal, provincial, national and global scales, in many countries and regions, and is recognized as one of most prolific, cited and internationally connected scholars in his field. His research also has been reported in media around the world (eg., *NY Times, Wall Street Journal, The Economist, BBC, NBC*).

SEAGER, William E. | Department of Philosophy, University of Toronto

Academy of Arts and Humanities

William E. Seager is one of the world's leading philosophers of mind. His impactful research addresses foundational metaphysical issues concerning the nature of consciousness and of mental representation. He is a principal defender of the view that consciousness is a fundamental feature of the world that cannot be explained in terms drawn from other scientific theories. Seager brings his original research in philosophy of science to philosophical issues about consciousness.

SRIVASTAVA, Diane S. | Department of Zoology, The Department of British Columbia

Diane S. Srivastava is an internationally-recognized authority in community ecology. Her ground-breaking research integrates spatial and trophic processes to understand food webs, and their response to global change. She pioneered the use of natural microecosystems for testing the universality of ecological processes, and has authored seminal ecological syntheses. Her leadership nationally has led to a revitalization of synthesis science in Canada's ecology and evolution research community.

Academy of Science

STACEY, Dawn | School of Nursing, University of Ottawa

Dawn Stacey is an international authority in methods to support patients' involvement in evidence-informed healthcare decisions. Her pioneering research established cancer symptom triage decision tools, the novel decision coaching role, and efficient methods for creating decision aids, thereby improving patient and health system outcomes. Her methods and tools are publicly available, used in practice, and have directly influenced health policy in Canada and globally.

Academy of Science

TALWAR, Victoria | Department of Educational & Counselling Psychology, McGill University

Victoria Talwar's innovative interdisciplinary research on children's verbal deception and child witness issues has contributed to a new area of research examining the developmental trajectories and factors affecting children's honesty. Her research informs current debates about children's cognitive and social development as well as the universality of moral development, has important legal implications and has contributed to legal reform in Canada.

Academy of Social Science

TARASUK, Valerie | Department of Nutritional Sciences, University of Toronto

Academy of Social Science

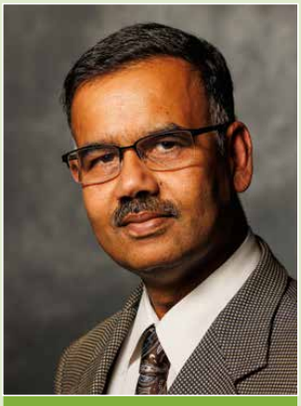
Valerie Tarasuk is a Professor Emerita in Nutritional Sciences at the University of Toronto. She has importantly advanced scholarship in public health nutrition and household food insecurity in Canada. Her research has established food insecurity as a potent social determinant of health, mitigated by federal and provincial policy interventions that improve the financial resources of vulnerable households; she has effectively mobilized this knowledge to shift public and political discourse.

THABANE, Lehana | Faculty of Health Sciences, McMaster University

Academy of Science

Lehana Thabane is a world-renowned scholar, educator, and trial statistician who, for more than three decades, has led, contributed to and been influential in the advancement of clinical trials methodology. His pioneering work in the development and application of novel statistical methods and trial designs, including pilot and feasibility trials, continues to underpin the discovery of innovative medical and behavioural interventions in Canada and globally.

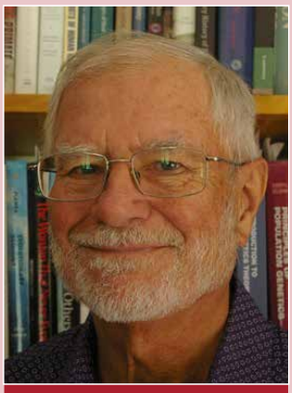
THANGADURAI, Venkataraman | Faculty of Science, University of Calgary



Venkataraman Thangadurai is an internationally renowned chemist who has made pivotal advances in solid-state electrochemistry, revolutionizing clean energy storage and conversion technologies which are integral towards zero carbon emissions renewable energy systems. His present research involves the development of novel solid-state materials for modern all-solid-state metal batteries and solid oxide fuel cells. His ground-breaking work on lithium solid electrolytes enables the replacement of unsafe organic electrolyte in current Li-ion batteries.

Academy of Science

THOMPSON, R. Paul | Institute for the History and Philosophy of Science and Technology, University of Toronto



Academy of Arts and Humanities

R. Paul Thompson has an international reputation in philosophy of biology, especially the mathematical/logical structure of biological theories, explanation and experimental design. He has made seminal contributions to understanding an evolutionary-based social contract account of morality, and has made internationally influential contributions to evolutionary theory, philosophy of medicine, and the benefits of genetic modification of organisms in medicine and agriculture. He has served extensively on committees advising governments and industry.

TONELLI, Marcello | Department of Medicine, University of Calgary

Academy of Science

Marcello Tonelli has contributed to the recognition of chronic kidney disease (CKD) as a major risk factor for adverse outcomes and has informed novel strategies for mitigating this risk. His highly cited research on prevention and control of kidney disease and its major risk factors has global impact through its direct influence on clinical practice, health services interventions, patient-centered practice guidelines, and public policy.

TREFLER, Daniel | Rotman School of Management and Department of Economics, University of Toronto

Academy of Social Science

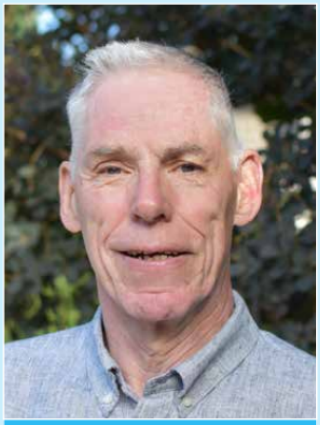
Daniel Trefler engages in fundamental research on international trade, innovation, inequality, and AI. He also contributes to policy debates surrounding trade agreements and global governance, including advising Canada on CETA, USMCA, and China. His awards include the Killam Prize, the Bank of Canada Fellowship, and the Canada Research Chair. His work has been cited by the Nobel Committee, the WTO, *New York Times*, *Newsweek*, *Wall Street Journal*, and *The Economist*.

TUFENKJI, Nathalie | Faculty of Engineering, McGill University

Academy of Science

Nathalie Tufenkji (Tier 1 Canada Research Chair in Biocolloids and Surfaces) is an award-winning and world-renowned environmental engineer who has pioneered sustainable technologies for water treatment and tackled problems linked with plastic pollution. Her ground-breaking contributions are recognized with several prestigious honours including the Killam Research Fellowship and Fellow of the Canadian Academy of Engineering. She has broadened the public's appreciation for science and created opportunities for women in the profession.

van KOOTEN, Cornelis | Department of Economics, University of Victoria



Academy of Social Science

Cornelis van Kooten's ground-breaking work drives research and policy in natural resource economics, including agricultural and forest economics, endangered species policy, land-use management, mathematical programming, and the economics of climate change and renewable energy. He is the world's most prolific forest economist and a leader in research related to the management of Canada's primary sectors, contributing in diverse, unique and significant ways to critical current debates.

VAN RAAMSDONK, Mark | Department of Physics and Astronomy, The University of British Columbia

Academy of Science

Professor Mark van Raamsdonk has made ground breaking contributions to theoretical physics, in particular quantum field theory, string theory, and quantum information. One of his most profound results is the demonstration that spacetime in gravity and thus Einstein's equations of General Relativity can emerge from quantum entanglement. His work contributed seminally to our modern understanding of the relation between quantum mechanics and gravity.

VELLEND, Mark | Département de biologie,

Université de Sherbrooke

Mark Vellend's work prompted paradigm shifts in research on the processes underlying ecological communities, and on Anthropocene biodiversity change. His empirical studies revealed the surprising result that biodiversity does not necessarily decline at all spatial scales, prompting a field-wide shift to focusing on biodiversity "change" rather than only loss. He won numerous awards, including an E.W.R. Steacie Memorial fellowship, and published a ground-breaking book, *The Theory of Ecological Communities.*

Academy of Science

VERDUN, Amy | Department of Political Science, University of Victoria

Amy Verdun's research embraces governance and integration in Europe: the institutional challenges of the European Union and its member states in the domain of political economy, including relationships between the EU and third countries. Her insights contribute to both scholarship and institution-building within and beyond Canada. Her thought leadership and prescient sense of important areas to research have long placed her at the forefront of both research and policy internationally.

Academy of Social Science

WILLKIE, Angélique | Department of Contemporary Dance, Concordia University

Angélique Willkie's interdisciplinary research and creative practice is recognized locally, nationally and internationally, in both academic and artistic contexts. Her work intersects generatively with her commitment to social and racial equity in those communities, culminating in her leadership of Concordia's efforts to combat anti-Black racism and

Academy of Arts and Humanities

an award-winning performance that is anchored in, and significantly contributes to, the burgeoning field of Black performance studies.

WONG, Gane Ka-Shu | Department of Biological Sciences and Department of Medicine, University of Alberta

Academy of Science

Gane Ka-Shu Wong is a pioneer in genomics, a new discipline that has impacted all of life sciences. By leading first-in-kind projects like the rice genome and 1000 plants (1KP) initiative, he created essential bioinformatics tools, released unprecedented amounts of sequence data, and launched world-renowned organizations. These activities changed our perceptions of large-scale sequencing strategies, revolutionized evolutionary studies of biodiverse species, and led to novel treatments for retinal blindness.

ZENG, Hongbo | Department of Chemical and Materials Engineering, University of Alberta

Academy of Science

Hongbo Zeng is a global leader and authority in intermolecular forces and interfacial science, renowned for his profound insights in uncovering mechanisms of molecular interactions between surfaces. His groundbreaking discoveries have significantly advanced our understanding of how molecular forces influence the physiochemical properties and performance of materials. His work has enabled researchers worldwide to develop novel functional materials that have positively impacted engineering, nanotechnology, natural resources, health, and the environment.

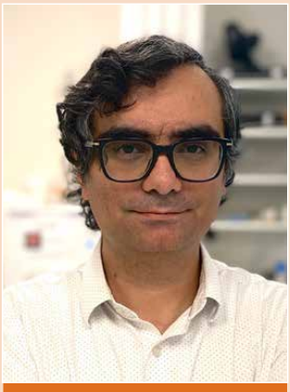
College Members

AFOLABI, Taiwo | Faculty of Media, Art and Performance, University of Regina

RSC College

Taiwo Afolabi is an interdisciplinary artist-researcher of African descent with internationally recognized expertise in applied theatre focusing on social justice, human rights, decolonization, and anti-racism education among Indigenous, immigrants, and marginalized communities. Through global theatre initiatives/publications, his practice-based research encompasses issues of public health education, Sustainable Development Goals, African theatre, entrepreneurship, and sustainability.
He was the founding artistic director of Theatre Emissary International, currently the Director of the Centre for Socially Engaged Theatre, and a CRC in Socially Engaged Theatre.

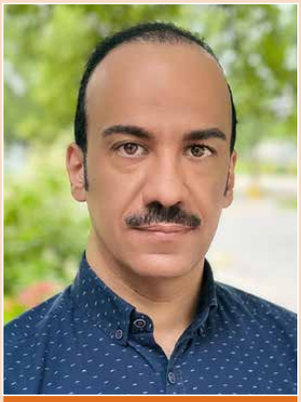
AKBARI, Mohsen | Department of Mechanical Engineering, University of Victoria



RSC College

Mohsen Akbari, an internationally renowned researcher, has made groundbreaking contributions to tissue engineering and disease modeling using advanced materials. His inventions include a handheld bioprinter, self-filling microwell arrays for tumor organoids, and smart microcarriers for cell manufacturing. With over 130 journal papers and book chapters to his name, his work has been featured on the covers of 11 prestigious journals and recognized by +50 media outlets worldwide.

AL ABOUD, Odae | School of Mathematics and Statistics, Carleton University



RSC College

Odae Al Aboud is a leading professor specializing in information theory, design theory, and combinatorics. His extensive research in these domains has greatly influenced the field and has been recognized for its significant contributions. His comprehensive knowledge also spans the realms of data science and policy-making, where he employs cutting-edge modeling, machine learning, and artificial intelligence techniques to extract invaluable insights from complex datasets. By combining his passion for driving innovation and shaping evidence-based policies, He brings a wealth of knowledge and experience to positively influence society.

ALLARD-TREMBLAY, Yann | Department of Political Science, McGill University

RSC College

Yann Allard-Tremblay, a member of the Huron-Wendat First Nation, is an Assistant Professor in Political Science at McGill University.
His transdisciplinary research explores the decolonization and Indigenization of political theory. Centering Indigenous lifeways and political practices in his scholarship, he challenges ongoing colonial dynamics in political thought that silence and distort Indigenous views.

ARRIETA, Marie-Claire | Departments of Physiology & Pharmacology and Pediatrics, University of Calgary

RSC College

Marie-Claire Arrieta is an Associate Professor and Research Excellence Chair in the Departments of Physiology and Pharmacology, and Pediatrics at the University of Calgary. She is an international emerging leader at the forefront of the human microbiome field. Her research program studies the establishment of the microbiome during early life and its influence in pediatric immune, metabolic and neurological development. Her group's work is disseminated in top journals, meetings and through responsible and effective communication with the public.

BAULCH, Helen | School of Environment and Sustainability, University of Saskatchewan

RSC College

Helen Baulch is an award-winning instructor and researcher. Her work centers water security, most notably water quality where she works with decisionmakers to guide research, and advance efforts to address the growing water quality crisis in Canada. Her focus is on issues of nutrient pollution and blooms, with broader interdisciplinary and transdisciplinary research and teaching aimed at understanding pathways towards more sustainable agricultural and environmental management practices.

BAZALOVA-CARTER, Magdalena | Department of Physics and Astronomy, University of Victoria

RSC College

Magdalena Bazalova-Carter is Tier 2 Canada Research Chair in Medical Physics and Associate Professor at the University of Victoria. An internationally recognized scholar, she integrates physics and medicine to advance scientific knowledge and health care applications of novel cancer radiotherapy technologies. Her research is leading to radiotherapy with better treatment outcomes, less damage to healthy tissues, lower cost and greater global accessibility.

BECK, Lauren | Centre for Early Modern Visual Culture, Mount Allison University

RSC College

Lauren Beck's research exposes the coloniality of our visual culture that shapes and constrains our identities through social and mass media of any period. She pioneers visual and material means of de-centering the western epistemologies and perspectives that uphold white supremacy and patriarchy to shine light on marginalized peoples and their agency—from women and people of colour to Indigenous peoples—and to amplifying their voices and experiences.

BERARDI, Umberto | Faculty of Engineering and Architectural Science, Toronto Metropolitan University

RSC College

Umberto Berardi, Canada Research Chair in Building Science, is transforming the building industry by using new technologies (phase change materials and aerogels) to develop sustainable building facades that are more resilient and energy efficient. A Fellow of the International Association of Advanced Materials, and a multi-award winner, he is celebrated for developing super-insulating materials that guarantee a high thermal resistance at a fraction of the thickness of traditional materials.

BOVY, Jo | Department of Astronomy and Astrophysics, University of Toronto

RSC College

Jo Bovy is elected to the College in recognition of his contributions to our understanding of the history, structure, dynamics, and content of the Milky Way galaxy.

BROWN, Carissa | Department of Geography, Memorial University of Newfoundland

Carissa Brown is making internationally acclaimed research advances in ecology and biogeography, specifically climate change impacts on species distributions and fire in the boreal forest. She focuses on plant systems that are currently experiencing notable changes to their climate, developing models that predict how these changes will impact vegetation dynamics. Her research in the subarctic on the treeline expansion is crucial to the ecology of northern ecosystems and dependent communities.

RSC College

BURCHELL, Ann | Department of Family and Community Medicine, University of Toronto

Ann Burchell is Canada Research Chair in Sexually Transmitted Infection (STI) Prevention, Scientist at Unity Health Toronto, and Associate Professor in the University of Toronto Department of Family and Community Medicine and Dalla Lana School of Public Health. She leads internationally-recognized research on how to improve STI prevention and care, and reduce complications from STIs. Her findings are incorporated in national and international STI prevention and control guidelines.

RSC College

CARON-HUOT, Simon | Department of Physics, McGill University

Simon Caron-Huot is a theoretical physicist internationally renowned for his contributions to particle physics. A Canada Research Chair, his work aims to illuminate the mathematical laws which the Universe appears to follow at the shortest of distances. He pioneered analytic techniques to exploit self-consistency to describe strongly interacting systems, established new symmetries of scattering amplitudes, and is known for developing an “inversion” formula that captures the critical

RSC College

exponents of diverse scale-invariant systems.

CARTER, Christine | School of Music, Memorial University of Newfoundland

RSC College

Christine Carter is an internationally recognized clarinetist and recording artist. Known for visionary interdisciplinary projects, she has performed at prestigious venues around the world, from Carnegie Hall to the Sydney Opera House. An Associate Professor at Memorial University, Dr. Carter is also a sought-after expert in performance psychology. As a researcher and workshop presenter, she has helped thousands of musicians worldwide become more effective on stage and in practice.

CHAKRAVARTY, Mallar | Department of Psychiatry, McGill University

RSC College

Mallar Chakravarty is an award-winning computational neuroscientist. His foundational contributions in neuroimaging have been used to study neuroanatomy, population-level brain variation, and model systems of brain disease by integrating techniques from data science, neuroscience, and biological psychiatry. His multi-scale and -disciplinary approach have demonstrated novel associations between behaviour, whole brain phenotypes, and their putative cellular and molecular underpinnings. His internationally recognized research has resulted in >330 publications and >25,000 citations.

COLOMBO, Stefanie | Department of Animal Science & Aquaculture, Dalhousie University

RSC College

Stefanie Colombo, Dalhousie University's Tier II Canada Research Chair in Aquaculture Nutrition, directly impacts Canadian farmed seafood by developing novel solutions in fish nutrition. Through development of environmentally sustainable feeds, her work is helping minimize aquaculture's environmental footprint and maximize nutritional benefits for the fish and consumers. She is fundamentally influencing the food Canadians eat, increasing omega-3 content in salmon fillets for the benefit of consumers.

CÔTÉ, Marceline | Department of Biochemistry, Microbiology, and Immunology, University of Ottawa

RSC College

Marceline Côté is the Tier II Canada Research Chair in Molecular Virology and Antiviral Therapeutics and an internationally recognized leader in the field of emerging viruses. Her work has revealed several critical factors involved in viral infection and virus entry and has identified small-molecule inhibitors that could be used for the development of urgently needed broad spectrum antiviral therapies.

CRANSTON, Emily D. | Departments of Wood Science and Chemical and Biological Engineering, The University of British Columbia

RSC College

Emily D. Cranston is a Professor and President's Excellence Chair in Forest Bioproducts at the University of British Columbia. She is a world-leading nanoscientist. Her research is expanding the use of nanocellulose, derived from sustainable bio-based resources like wood pulp, in technologies that offer environmentally-friendly alternatives to petrochemical-based materials and plastics. Cranston is highly cited, highly funded, and has won prestigious awards typically reserved for late career scientists.

CROMPTON, Constance | Department of Communication, University of Ottawa

RSC College

As the Canada Research Chair in Digital Humanities, Constance Crompton is internationally recognized for her innovative research methods, bringing together archival records, digital methods and social justice. Her award-winning research has significant implications for preserving and accessing digital knowledge–the development of sustainable and interconnected humanities-backed data shapes not only what Web-using scholars and citizens can know about the past, but also how to make evidence-based decisions for the future.

DIMITROPOULOS, Gina | Faculty of Social Work, University of Calgary

RSC College

Gina Dimitropoulos is an Associate Professor of Social Work and cross appointed to the Departments of Psychiatry and Pediatrics at the University of Calgary. She is a global expert on eating disorders and youth mental health. She has pioneered innovative treatments and novel psychotherapies for youth with eating disorders and mental health issues across community and clinical contexts. Her treatment development and knowledge mobilization approaches ensure youth and families are co-creators in the research process. She fosters national and international partnerships to drive research with a translational impact on policy and practice. She is leading studies on early interventions, transitions in care, brief interventions and family-based treatments for youth and emerging adults with eating disorders.

FIEST, Kirsten | Department of Critical Care Medicine, University of Calgary

RSC College

Kirsten Fiest leads an internationally recognized research program as an Associate Professor of Critical Care Medicine at the Cumming School of Medicine at the University of Calgary. She has over 200 publications, 10,000 citations, and an H-index of 50. She is leading the field in integrating families into patient care within the ICU improving care for critically ill patients and their families.

GEOFFROY, Marie-Claude | Department of Psychiatry, McGill University

RSC College

Marie-Claude Geoffroy is a professor in Educational and Counselling Psychology at McGill University, Canada Research Chair (II) and psychologist. Her research focuses on youth mental health, suicide risk and protective factors, developmental origins, and most importantly, suicide prevention. Her work contributes to raising awareness about the current youth mental health crisis and building hope. She has had an impact on the advancement of knowledge, practice of psychology and public health.

GHARZEDDIN, Kifah | Department of Biology, Carleton University

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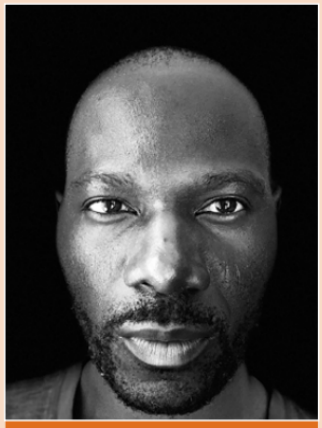
Kifah Gharzeddin is a crop breeder with focus on genetically improving legumes yield to enhance food production in the face of poverty. Dr. Gharzeddin's research has contributed to food access and legume crops diversity in Syria. His career features highly productive partnerships with research institutes and government agencies disseminating environmental agricultural practices worldwide including regions with challenging climate. Pressing on under conditions of war, Gharzeddin's contribution for farmers has been widely recognized.

GIWA, Sulaimon | School of Social Work, Memorial University of Newfoundland



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Sulaimon Giwa has an international reputation for his community-engaged research in forensic social work, race and sexuality, and the effects of structural racism on racialized and LGBTQ2S+ people. Among other innovative contributions, he has raised awareness of the marginalization of LGBTQ2S+ newcomers and improved organizational capacity to meet their needs. His efforts have influenced the policies and practice of several partner organizations including the Association for New Canadians.

GREEN, Jessica | Department of Political Science, University of Toronto

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Jessica Green is an international leader in global governance and climate policy. Working as an interdisciplinary scholar of the environment at the nexus of international law, international relations and public policy, she produces groundbreaking research examining the origins of private authority in environmental governance, the effectiveness of carbon markets, and the role of international trade and finance institutions in creating the conditions for rapid decarbonization.

GREER, Amy | Department of Population Medicine, University of Guelph

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Amy Greer, Canada Research Chair (Tier II) in Population Disease Modelling and Associate Professor is an internationally recognized scholar dedicated to improving global infectious disease preparedness and response. Her research focuses on the intersection of epidemiology, ecology, and mathematics. The impact of her work is felt across sectors and borders preparing governments and industry to act quickly and decisively when the next outbreak hits human or animal populations.

GROSSMANN, Igor | Department of Psychology, University of Waterloo

RSC College

Igor Grossmann is a USERN Prize winner, Fellow of the Society for Personality and Social Psychology, and one of the world's leading scholars for wisdom, judgment, and cultural evolution. As the founder of the Behavioral and Social Science Forecasting Collaborative and host of the OnWisdom Podcast, he builds interdisciplinary initiatives across a spectrum of disciplines and translates his internationally lauded research into accessible knowledge dissemination activities relevant to our global community.

HARRISON, Joe | Department of Biological Sciences, University of Calgary

Joe Harrison is a Professor in the Department of Biological Sciences and Canada Research Chair in Biofilm Microbiology and Genomics at University of Calgary. He has made pivotal contributions to the field of microbiology, biochemistry, and molecular genetics through the study of biofilms. His discovery of heat-sensing enzymes and biofilm susceptibility to toxic metals inform new approaches in chronic infectious diseases treatments.

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HARTLING, Lisa | Department of Pediatrics, University of Alberta

Lisa Hartling holds a Canada Research Chair (Tier 1) in Knowledge Synthesis and Translation, and is a Distinguished Researcher with the Stollery Science Lab. She is internationally recognized for integrating the best available scientific evidence to support decision-making in health. She produces evidence-based resources that are used globally by front-line healthcare providers, policy-makers, and parents and families.

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HERBERT, David | Department of Chemistry, University of Manitoba

David Herbert is a Professor in the Department of Chemistry at the University of Manitoba, where his scholarship addresses the critical issue of sustainability in molecular materials through ligand design and innovative synthetic approaches. Both inside and outside the lab, he is a strong advocate for science communication and promoting research

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opportunities to equity-seeking groups, including through outreach that connects high school students with socially meaningful research.

KAKURU, Doris | School of Child and Youth Care, University of Victoria

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Doris Kakuru is a Professor in Child and Youth Care at the University of Victoria's Faculty of Human and Social Development. She is a leading scholar on African girlhoods. She works on various themes in the broad area of children's geographies and their bearing on social justice and child protection. Her current work focusses on adolescent sexual and reproductive health and rights, young motherhood, and violence against children and youth.

KELETA-MAE, Naila | Department of Communication Arts, University of Waterloo

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Naila Keleta-Mae is a Dorothy Killam Fellow, the Canada Research Chair in Race, Gender, and Performance (Tier II), an Associate Professor in the Department of Communication Arts at the University of Waterloo, and a multidisciplinary artist. She is the Principal Investigator of Black And Free—a research-creation project that brings together artists, academics, students, general publics, and private and public sector partners to examine Black expressive culture through research, scholarship, and art.

KIVELL, Tracy | Department of Human Origins, Max Planck Institute for Evolutionary Anthropology

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Tracy Kivell is a Canadian palaeoanthropologist and Director of the Department of Human Origins at the Max Planck Institute for Evolutionary Anthropology in Leipzig, Germany. Her research combines comparative anatomy, biomechanics, high-resolution imaging, and the study of living apes to address fundamental questions about human evolution, including the emergence of bipedalism and tool use in our fossil relatives. Kivell has worked on renowned human fossils from South Africa to Indonesia.

LANGLOIS, Valérie S. | Centre Eau Terre Environnement, Institut national de la recherche scientifique

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Valérie S. Langlois is a Full Professor at the Centre Eau Terre Environnement of the Institut national de la recherche scientifique and holds the Canada Research Chair in Ecotoxicogenomics and Endocrine Disruption, a rapidly expanding field. She is the founding Director of the Centre intersectoriel d'analyse des perturbateurs endocriniens, Vice-President of the North American Society for Comparative Endocrinology and Co-Chair of the Scientific Advisory Committee on Pest Control Products of the Health Canada Pest Management Regulatory Agency.

LIU, Jian | Faculty of Applied Science, The University of British Columbia

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Jian Liu is an Associate Professor at UBC and an internationally renowned emerging leader in energy storage technologies. He has made original contributions to developing transformative interface engineering, materials, and chemistry for lithium-ion batteries, supercapacitors, and next-generation batteries for electric vehicles and grid storage. He works closely with industry, community, and government to translate fundamental research into made-in-Canada battery technology for the clean energy transition.

LUBY, Brittany | Department of History, University of Guelph

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Brittany Luby, of Anishinaabe descent, was raised on Treaty #3 Lands in what is currently known as Northwestern Ontario. She is an associate professor of history at the University of Guelph who seeks to stimulate public discussion of Indigenous issues through her work. Her picture books include *Mii maanda ezhi-gkendmaanh/This is How I know*, illustrated by Joshua Mangeshig Pawis-Steckley and *Encouter*, illustrated by Michaela Goade. Her monograph *Dammed* received the 2021 Governor-General's Award for Scholarly Research.

McIVOR, Onowa | Department of Indigenous Education, University of Victoria

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Onowa McIvor is maskékow-ininiw (Swampy Cree) and Scottish-Canadian. She is a lifelong learner of nēhinawēwin (her maternal language) and a grateful occupant in Iəḵʷəŋən and W̱SÁNEĆ territories. Dr. McIvor is a Professor and President's Research Chair in Indigenous Education at the University of Victoria. She leads the national NEȾOLN̓EW̱ Research Partnership, a seven-year project working to understand and enhance Indigenous adults' contributions to reviving Indigenous languages in Canada.

NOLETTE, Nicole | Département d'études françaises, University of Waterloo

RSC College

Nicole Nolette is Canada Research Chair in Minority Studies (Tier II, SSHRC). Her areas of research include French-Canadian minority studies, theatre studies, and Translation studies. Her first monograph won two major Canadian theatre research awards. She has already established herself as a leader in the field: she is president of the Société québécoise d'études théâtrales and co-editor of the distinguished publication Theatre Research in Canada/Recherches théâtrales au Canada.

NOSYK, Bohdan | Faculty of Health Sciences, Simon Fraser University

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Bohdan Nosyk, St. Paul's Hospital CANFAR Chair in HIV/AIDS Research, is a leading population health scientist in both HIV/AIDS and substance use disorders. His innovative use of data-intensive methods from economics, statistics and epidemiology has informed health policy and clinical practice both nationally and internationally. His research team's focus is on the performance and sustainability of health systems in serving as a means of reducing health and social inequities.

OGBOGU, Ubaka | Faculty of Law, University of Alberta

RSC College

Ubaka Ogbogu is a professor, multidisciplinary legal scholar, and a leading expert on the ethical and regulatory aspects of health research and technologies. His scholarly activities have shaped and influenced academic discourse and governance policies on challenging moral, legal and social questions surrounding research, development and clinical adoption of next-generation health technologies. His research supports the delivery of ethical and innovative health technologies to Canadians.

ORGIU, Emanuele | Centre Énergie, Matériaux, Télécommunications, Institut national de la recherche scientifique

RSC College

Emanuele Orgiu is a device physicist who has made seminal contributions to the field of organic polaritonics, quantum materials and hybrid materials for electronics. His work on organic and quantum materials is internationally recognized and has led to major breakthroughs including the unraveling of the physics of charge transport in strongly coupled semiconductors and hybrid molecule/quantum material structures as well as their applications in photonics and electronics.

PALMATER, Pamela | Department of Politics and Public Administration, Toronto Metropolitan University

RSC College

Pamela Palmater, Chair in Indigenous Governance and award-winning Mi'kmaw lawyer, shapes national conversations on the legal, political, and social issues facing Indigenous peoples in Canada. Committed to engaging with First Nations leadership and grassroots organizations, her leadership has directly influenced legislative change relating to sex discrimination in the Indian Act as well as recommendations in the National Inquiry into Missing and Murdered Indigenous Women and Girls and numerous UN reports.

PAPERNOT, Nicolas | Department of Electrical and Computer Engineering, University of Toronto

RSC College

Nicolas Papernot is an Assistant Professor in the Department of Electrical & Computer Engineering and the Department of Computer Science at the University of Toronto and holds a Canada CIFAR AI Chair at the Vector Institute for Artificial Intelligence. He is a pioneer in the field of adversarial examples against deep learning models, and a leader in methods of preserving and proving privacy in deep learning models.

PAQUET, Mireille | Department of Political Science, Concordia University

RSC College

Mireille Paquet is Associate Professor of Political Science and Concordia University Research Chair on the New Politics of Immigration. She heads the Équipe de recherche sur l'immigration au Québec et ailleurs (ÉRIQA, Quebec and international immigration research team). A political scientist recognized by her peers, her innovative research contributes to the study of two important themes in the Canadian context: federalism and the relationship between immigration and politics.

PHILLIPS, Aaron | Department of Physiology & Pharmacology, University of Calgary

RSC College

Aaron Phillips is an Associate Professor in the Departments of Physiology and Pharmacology, Clinical Neurosciences, and Biomedical Engineering, at University of Calgary. He leads an internationally recognized research program that developed a therapy for treating spinal cord injury using advanced research techniques, bioinformatics, and control engineering. He has had success commercially through these discoveries. He also serves on the Board of Directors for Big Brothers Big Sisters Calgary.

PULLEN SANSFAÇON, Annie | École de travail social, Université de Montréal

RSC College

Annie Pullen Sansfaçon (PhD Ethics, Social work, DeMontfort University, UK) is Professor at the University of Montreal's School of Social Work and she holds the Level 1 Canada Research Chair RePaRe: Partnership Research and Empowerment of Vulnerable Youth. In her work, she examines the experiences of gender diverse youth as well as proposes ethical and methodological reflections to facilitate the empowerment of those groups and to confront oppressions and facilitate social change.

PUTERMAN, Eli | School of Kinesiology, The University of British Columbia

RSC College

Eli Puterman is an Associate Professor in the School of Kinesiology at the University of British Columbia in Vancouver, British Columbia, Canada. He is the Canada Research Chair in Physical Activity and Health since 2015. Dr. Puterman's research program develops and implements physical activity and exercise programs in collaboration with and for hard-to-reach and high-stress individuals to determine how such programs can improve mental and physical wellbeing.

ROBINSON, Darryl | Faculty of Law, Queen's University

RSC College

Darryl Robinson is recognized internationally as one of the most influential scholars in the evolving field of international criminal justice. His work, which advocates more humanistic and sensitive legal responses, was awarded the Antonio Cassese Prize for its innovation and insight. His ideas have shaped international law and transnational jurisprudence on modern crimes against humanity, head of state immunities, command responsibility, and complementarity between jurisdictions.

RULE, Nick | Department of Psychology, University of Toronto

RSC College

Nick Rule is Professor of Psychology and presently serves as Dean of the University of Toronto Mississauga. His pioneering work on accuracy and bias in interpersonal perception and nonverbal behaviour demonstrates how people's impressions of each other effect meaningful social, political, judicial, and business outcomes, garnering awards from the International Social Cognition Network, International Academy for Intercultural Research, Foundation for Personality and Social Psychology, and Canada Research Chairs, among others.

SEMENIUK, Christina | Department of Integrative Biology, University of Windsor

RSC College

Christina Semeniuk is an internationally recognized predictive ecologist who applies integrative methodologies to theories of adaptive capacity in complex systems to forecast human and wildlife responses to rapid environmental change. Her pioneering contributions are developing leading-edge interdisciplinary solutions for conservation science within coupled human-and-animal systems in conflict over resources. She embraces social justice and EDI measures to innovate responsible scientific and knowledge exchange to ensure successful conservation for all.

STODDART, Mark C.J. | Department of Sociology, Memorial University of Newfoundland

RSC College

Mark C.J. Stoddart has made innovative contributions to the sociology of climate change for over a decade. His ground-breaking research includes eco-politics, media and communication, social movements, policy networks, tourism, and oil and energy. His work is praised for its broad impact on research, policy and practice. By making important connections across local, national, and cross-national levels of analysis, his work is lauded as “essential reading” for pursuing social-ecological sustainability.

TANENTZAP, Andrew | School of the Environment, Trent University

RSC College

Andrew Tanentzap is Canada Research Chair in Climate Change and Northern Ecosystems at Trent University, arriving from the University of Cambridge where he was Professor of Global Change Ecology. He is internationally recognised for work at the interface of ecology, evolutionary biology, and biogeochemistry, making fundamental discoveries in understanding how environmental change impacts both biodiversity and the benefits people receive from nature, including carbon sequestration, food production, and drinking water.

THÉRIAULT, Julie Mireille | Département des sciences de la Terre et de l'atmosphère, Université du Québec à Montréal

RSC College

Julie Mireille Thériault is a Professor and Canada Research Chair in Extreme Winter Weather Events at the Université du Québec à Montréal. Her work aims to identify the weather factors, including precipitation, that lead to high-impact events. She combines modeling, measurements and theory to study those factors in unprecedented ways. Her achievements have led to key advances in precipitation measurement and in improving our understanding of rain-snow transitions, freezing rain formation and climate change in northern environments.

TREMBLAY, Marie-Ève | Division of Medical Sciences, University of Victoria

RSC College

Marie-Ève Tremblay is the Canada Research Chair in Neurobiology of Aging and Cognition. She is a world expert on microglia, the brain's immune cells. Her research aims to develop innovative therapies promoting brain resilience and healthy cognitive aging. She strongly advocates equity, diversity and inclusion, and collaboration via training. With her international research team, she has contributed to multi-disciplinary endeavours across fields, including reproduction, development, neuroscience, nutrition, immunometabolism, and aging.

WILLIAMS, Monnica | Department of Psychology, University of Ottawa

RSC College

Monnica Williams is a board-certified registered psychologist and Canada Research Chair in Mental Health Disparities. Her clinical work and research focus on the mental health of communities of color, culture, trauma, and obsessive-compulsive disorder. Her original contributions include novel means of assessing mental health, innovative interventions for reducing racism, and innovative treatments for trauma due to racism. Her breakthroughs and important achievements have been well-recognized with numerous distinctions and awards.

WUNCH, Debra | Department of Physics and School of the Environment, University of Toronto

RSC College

Debra Wunch is an atmospheric physicist who plays a leading role in the development and use of remotely sensed measurements of greenhouse gases. She has fostered the development of a global network of instruments that occupies a critical niche between in-situ and space-based measurements of carbon dioxide and methane. Her research on greenhouse gas emission sources and natural sinks provides new insights into the global carbon cycle.

YU, Aiping | Department of Chemical Engineering, University of Waterloo

RSC College

Aiping Yu is an outstanding researcher working on nanomaterials for renewable energy and polymer composites. She champions the commercialization of proprietary technologies for industrial applications. Her publications have reached citation >25,900 with H-index 80 from Google Scholar. She was recognized nationally by NSERC Steacie Memorial Fellowship and RSC Rutherford Memorial Medal. She is among the World's Top 2% Scientist published by John Ioannidis at Stanford in 2022.

ZHANG, Gaixia | Department of Electrical Engineering, École de Technologie Supérieure

RSC College

Gaixia Zhang is an Associate Professor and Marcelle-Gauvreau Engineering Research Chair at École de technologie supérieure (ÉTS). She is an internationally renowned emerging leader in nanotechnology and sustainable energy. She made important original contributions to developing next-generation clean energy devices (fuel cells, batteries, and electrolyzers), aiming to address energy shortage and climate change in a cost-effective way. She authored over 150 publications and ten book chapters and holds four patents.