

2025 SMU Research Recognition Reception

October 10, 2025

Hosted by:

Adam Sarty (*Associate VP Research/ Dean of Graduate Studies & Research*)
and the FGSR Research Office team



**Paul Muir –
Mathematics & Computing Science**



**Recognizing *continuous* NSERC Discovery Grant funding for 40 years!
(1985 – 2025)**

John C.O. Young (Emeritus) – Chemistry



Recognizing Honorary Membership into the NS Institute of Science (NSIS)

- *becoming 5th Honorary member (joining Nobel Prize and Herzberg Medal winners)*
 - *still publishing scientific articles at the age of 95*

Research Ethics Board Members

Name	Faculty	Department	Type of Member
Rhoda Adeyemi	Arts	International Master of Teaching English	Graduate Student
Mark Barr	Arts	English	Faculty
Sophia Blanchard	Sobey School of Business	MBA	Graduate Student
John Boddie	N/A	N/A	Community
Michele Byers	Arts	Women & Gender Studies	Faculty
Rebecca Cairns	Science	Psychology	Graduate Student
Jim Cameron	Science	Psychology	Faculty
Leanna Closson	Science	Psychology	Faculty
Arla Day	Science	Psychology	Faculty
Maryam Dilmaghani	Sobey School of Business	Economics	Faculty
Mark Fleming	Science	Psychology	Faculty
Leesa Hamilton	NSCAD	Craft/Textiles and Fashion	Faculty
Aditya Kashyap	Sobey School of Business	EDBA	Graduate Student
Min-Jung Kwak	Arts	Geography & Environmental Studies	Faculty
Hao Lu	Sobey School of Business	Management	Faculty
Luke MacDonald	Science	Engineering	Faculty
Mathew Reichertz	NSCAD	Fine Arts/Painting	Faculty
Ron Russell	Science	Biology	Faculty
Marcus Sibley	Arts	Criminology	Faculty
Mary Sheppard	Science	Chemistry	Faculty
Deana Symes	Science	Chemistry	Graduate Student
Tatjana Takseva	Arts	English	Faculty
Orshy Torok	Graduate Studies & Research	Research Ethics	Staff
Darrell Varga	NSCAD	Art History & Contemporary Culture	Faculty
Megan Walsh	Sobey School of Business	Management	Faculty

Animal Care Committee

Name	Department/ Affiliation	Position	Term
Susan Bjornson	Biology	Committee Chair	Jan. 2023 – Aug. 2026
Jim Gillis	Bedford Highway Veterinary Hospital	Consulting Veterinarian	On-going
Caila Henderson	Faculty of Science	Animal Care Coordinator/ Aquatic Facility Manager (ex-officio)	On-going
Colleen Barber	Biology	SMU Faculty Member experienced in animal-based research	Jan. 2025 – Jan. 2028 (renewable)
David Chiasson	Biology	SMU Faculty Member whose research activities do not involve or depend on the	Sep. 2025 – Aug. 2026
Kevin Shaughnessy	Biology	MSVU Faculty Member	Sept. 2022 – Sept. 2025 (renewable)
Heather McKinnon Ramshaw	Resident of Halifax County	Community Member	Oct. 2023 – Oct. 2026 (renewable)
MacAulay Harvey	Chemistry	SMU Graduate Student	Sept. 2025 – Sept. 2026 (renewable)
Kaitlyn Kerr	Environmental Science	SMU Graduate Student	Sept. 2025-Sept. 2026 (renewable)

**CANADA
RESEARCH CHAIRS
CHAIRES DE
RECHERCHE DU
CANADA**



Ivana Damjanov – Astronomy & Physics

Tier II, Canada Research Chair in Astronomy and
Astrophysics



Christa Brosseau – Chemistry

Tier II, Canada Research Chair in Sustainable Chemistry
and Materials



Erin Cameron – Environmental Studies

Tier II, Canada Research Chair in Global Change
Biology



Mohammad Rahaman – Finance, Information Systems & Management Science

Tier II, Canada Research Chair in International Finance
and Competitiveness



Todd Ventura – Earth Science (Geology)

Tier II, Canada Research Chair in Organic Geochemistry
and Marine Research



Karly Kehoe – History

Tier II, Canada Research Chair in Atlantic Canada
Communities





Faculty of Arts

Diane Crocker – Criminology

Safe City and Safe Public Spaces, Halifax Regional
Municipality



Allyn Walker – Criminology

Wellbeing for All, Immigration Services Association of
Nova Scotia (ISANS)



Alexandra Dodge – Criminology

*Combatting Technology-Facilitated Sexual Violence:
Supporting Young People in Schools, Social Relationships
and on Social Media*, Western University/Social Sciences
and Humanities Research Council, Insight Grant

*Torture, Abuse, Gore, and More: Young People's Exposure
to Authentic Violent Content, Online*, Social Sciences and
Humanities Research Council, Partnership Engage Grant



Luke Hathaway – English Language & Literature

Canada Council for the Arts, Concept-to-Realization Grant –
to James Rolfe (composer) for development, workshop, and
presentation of *Caeneus*: a new work of music theater (Luke
Hathaway, librettist / co-producer)



Goran Stanivukovic – English Language & Literature

Wonder and the Romance in Early Modern England,
Social Sciences and Humanities Research Council,
Insight Development Grant



Min-Jung Kwak – Geography & Environmental Studies

Intellectual Migration: The China Canada US Dynamics,
York University/Social Sciences and Humanities
Research Council, Insight Grant



Mathew Novak – Geography & Environmental Studies

Improvement of Old Growth Potential Index and Old-Growth Scored Data, Nova Scotia Department of Natural Resources and Renewables

Forest Connectivity Tool Update and Development for Nova Scotia, Nova Scotia Department of Natural Resources and Renewables

Evaluating Connectivity of PEI's Natural Ecosystems and Protected Areas Network, The Government of Prince Edward Island, Environment, Energy, and Climate Action



Robert Summerby-Murray – Geography & Environmental Studies

Canadian Military, Veteran and Family Connected Campus Consortium (CMVF₃C), University of Alberta/Minister of National Defence



Danika van Proosdij – Geography & Environmental Studies

Building Community Coastal Resilience in Nova Scotia with Green Shores for Homes, Nova Scotia Federation of Municipalities

Expanded Monitoring Program, Bathymetric Analysis and Habitat Monitoring Program Chiasson Office Barrier Beach, New Brunswick, Fisheries and Oceans

Making Room for Wetlands: St. Croix Edition, Fisheries and Oceans

Making Room for Wetlands: The Coastal Carbon Edition, Environment and Climate Change Canada

Adapting Nova Scotia's Shared Coastal Parks, Clean Nova Scotia Foundation



Danika van Proosdij – Geography & Environmental Studies

Green Shores Program, Atlantic Infrastructure Management Network

Sedimentological analysis, technical review, and coastal geomorphological expertise for coastal research, CBWES

Protecting Coastal Wetlands in Nova Scotia through Stewardship and Collaboration, Coastal Action

Green Shores for Homes 2023-2025 project support, Stewardship Centre

Green Shores for Homes 2023-2026, Stewardship Centre

Understanding Coastal Ecosystem Response to Nature-Based Climate Adaptation Methods in a Cold Climate, Mitacs

Blake Brown – History

A history of Canadian medical malpractice law, 1935-1980, Social Sciences and Humanities Research Council, Insight Grant



Kirrily Freeman – History

Heritage Field Placements Program, Nova Scotia
Advanced Education



Heather Green – History

*Mining Danger: Industrial Disease, Accidents, and Pollution
in Canada's Mines and Mining Communities, 1870-1990,*
Memorial University of Newfoundland/Social Sciences
and Humanities Research Council, Insight Grant



Karly Kehoe – History

*Equitable opportunities for research and tertiary education
for people with lived experience of displacement,*
University of Ottawa/Social Sciences and Humanities
Research Council, Partnership Grant



Timothy Stretton – History

Patriarchy, Contract and Coverture in England, 1500-1800, Social Sciences and Humanities Research Council, Insight Grant



Peter Twohig – History

“As important as machinery”: Unions, advocacy and the making of healthy workplaces, 1950-1985, Social Sciences and Humanities Research Council, Insight Development Grant



Myles McCallum – Languages & Cultures

An Early Imperial Villa in the Sabina: The Villa di Tito Project, Social Sciences and Humanities Research Council, Insight Grant



Sveva Savelli – Languages & Cultures

*Excavation and survey at Incononata 'Greca': a study of
the indigenous-Greek frontier on the Ionian Coast,*
McMaster University/Social Sciences and Humanities
Research Council, Insight Grant



Kate Ervine – Political Science & Global Development Studies

*Assessing Effectiveness in Models of Novel Carbon
Dioxide Removal Finance: A Comparative Study,*
Social Sciences and Humanities Research Council,
Insight Grant



Gavin Fridell – Political Science & Global Development Studies

*Sustainable Trade, Between Token and Substantive
Change: Rethinking North American Trade*, Social
Sciences and Humanities Research Council, Insight Grant



Paulo Ravecca – Political Science & Global Development Studies

Countering Disinformation About The 2SLGBTQI+ Community in Rural Canada: Investigating How Older Canadians Interact with the Anti-SOGI Movement in Alberta, British Columbia, and Nova Scotia, Canadian Heritage

Generating Resilience on Our Way to Integrated Youth Service in Nova Scotia (GROW-IYS), IWK/Canadian Institutes of Health Research (CIHR), Integrated Youth Services Network of Networks (IYS-Net)



Margaret MacDonald – Study of Religion

*Expanding the family in Christianity and Islam:
intersectional and decolonizing perspectives,*
Social Sciences and Humanities Research Council,
Insight Development Grant



Alec Soucy – Study of Religion

The Development and Impact of Thich Nhat Hanh,
Social Sciences and Humanities Research Council,
Insight Grant



Bishop Owis – Women & Gender Studies

*CARE Constellations: Artmaking a Disability-centered
Care Praxis Model with QTBIPOC*, Social Sciences and
Humanities Research Council, Insight Development Grant



The background of the slide is a solid dark red color. Overlaid on this background is a repeating pattern of light red, thin-lined shapes. These shapes are stylized, rounded rectangles or shields, each containing a smaller, similar shape inside, creating a nested effect. The pattern is dense and covers the entire background.

Sobey School of Business

Matthew Boland – Accounting

Are firms ideologically fickle? Social Sciences and Humanities Research Council, Insight Development Grant

Improving output accuracy and the creation of more informative and nuanced financial projections, Invest Nova Scotia

CCPC Module for Oltre's Optiml Financial Planning Software, Invest Nova Scotia



Ather Akbari – Economics

Undertake a research project on the socioeconomic and demographic profiles of immigrants, Atlantic Canada Opportunities Agency



Maryam Dilmaghani – Economics

2SLGBTQ+ Poverty in Canada: Improving Livelihood and Social Wellbeing, York University/Social Sciences and Humanities Research Council, Partnership Grant



Nicholas Manuel – Economics

*The Long-term Consequences of Offering French
Immersion Programs*, Social Sciences and Humanities
Research Council, Insight Development Grant



Sonja Novkovic – Economics

Cooperative Board Decision Making, Conestoga
College/Social Sciences and Humanities Research
Council, Insight Grant



Tony Charles – Finance, Information Systems & Management Science

Sustainability of Fisheries, Coasts and Oceans - Integrated Systems Approaches, Natural Sciences and Engineering Research Council, Discovery Grant

MEOPAR, Dalhousie University/Natural Sciences and Engineering Research Council, Networks of Centres of Excellence

Vulnerability to Viability (V2V): Global Partnership for Building Strong Small-Scale Fisheries Communities, University of Waterloo/Social Sciences and Humanities Research Council, Partnership Grant

Ārramāt: Biodiversity, Conservation, and Indigenous Health & Well-being, University of Alberta/Social Sciences and Humanities Research Council, New Frontiers in Research Funds

Scoping study with compilation and analysis of case studies; on improving small-scale fisheries' equitable access to resources, and related approaches and indicators for monitoring socioeconomic dimensions relevant to fisheries management, Food and Agriculture Organization of the United Nations



Hamdi Driss – Finance, Information Systems & Management Science

Mandatory Environmental Disclosure and the Cost of Capital: International Evidence, Social Sciences and Humanities Research Council, Insight Development Grant



Seyed Davod Hosseini – Finance, Information Systems & Management Science

*Reliability and Equity in Route Planning under Uncertainty
and Risk*, Natural Sciences and Engineering Research
Council, Discovery Grant



Stephanie Kelley – Finance, Information Systems & Management Science

*Evaluating Practical Algorithmic AI Ethics Solutions that
Manage Firm Profitability*, Social Sciences and Humanities
Research Council, Insight Grant



Mohammad Rahaman – Finance, Information Systems & Management Science

*The Market for Private Credit and Environmental Disclosure
Quality*, Social Sciences and Humanities Research Council,
Insight Grant



Majid Taghavi – Finance, Information Systems & Management Science

Healthcare resource planning for seniors and end-of-life patients, Natural Sciences and Engineering Research Council, Discovery Grant



Xichen Zhang – Finance, Information Systems & Management Science

*Privacy-Preserving Edge-Cloud Collaboration in Mobile
Crowdsensing*, Natural Sciences and Engineering
Research Council, Discovery Grant

*Evaluating Practical Algorithmic AI Ethics Solutions
that Manage Firm Profitability*, Social Sciences and
Humanities Research Council, Insight Grant



Claudia De Fuentes – Management

Impact assessment of government support for transformational innovation, Treasury Board Secretariat

Global Navigation Satellite Systems (“GNSS”) and augmented GNSS on the Nova Scotia economy, Service Nova Scotia

Pathways to Employment: Empowering Talent and Bridging Gaps with Shared AI Driven Solutions, Mitacs

Understanding Gen Z Employee Challenges and Enhancing Workplace Culture through Skills-Based Volunteering, Mitacs



John Fiset – Management

Leadership Narratives in Systemic and Idiosyncratic Crises, University of Regina/Social Sciences and Humanities Research Council, Insight Grant



Feng Liu – Management

Don't waste a crisis: CEO & board team strategizing in light of the Covid-19 pandemic, Social Sciences and Humanities Research Council, Insight Grant



Xiaoyu Liu – Management

*Will Good Names Go Wrong? Corporate Reputation,
Idiosyncratic CSR Strategies and Negative Events,*
Social Sciences and Humanities Research Council,
Insight Grant



Catherine Loughlin – Management

*Building Healthy Leadership Systems Starts with our
Leaders*, Social Sciences and Humanities Research Council,
Insight Grant



Hao Lu – Management

Why Do Canadian Firms Not Benefit from Corporate Social Performance? Social Sciences and Humanities Research Council, Insight Development Grant



Mojtaba M. Shourkaei – Management

*Corporate Narrative of Sustainable Agri-Food
Production in Canada: A Critical Discourse Analysis,*
Social Sciences and Humanities Research Council,
Insight Development Grant



Firat Sayin – Management

Inclusive design for Employment Access (IDEA),
McMaster University/New Frontiers in Research
Fund, Transformation



Vurain Tabvuma – Management

Becoming Included through Inclusion: Redesigning employee on-boarding to increase wellbeing and performance, Social Sciences and Humanities Research Council, Insight Grant

FSC Research, University of Windsor



Mahdi Tajeddin – Management

*Small-Scale Holder Farmers' Entrepreneurial Ecosystems
in Tanzania (SFEET)*, Social Sciences and Humanities
Research Council, Insight Development Grant



Annika Voltan – Management

*Community-Embedded Implementation in the Context
of HRM*, Research Nova Scotia



Hadi Eslami – Marketing

Investigating Canadian SME Innovation Disparities: A Multilevel Analysis, Social Sciences and Humanities Research Council, Insight Grant

Buy Now and Pay Later (BNPL) payment systems and shareholder value, Laurentian University/ Social Sciences and Humanities Research Council, Insight Grant



Ethan Pancer – Marketing

Understanding Consumer Responses to Innovation in the Age of Generative Artificial Intelligence, Social Sciences and Humanities Research Council, Insight Grant

Sociable Analytics: Quantifying Engagement to Accelerate Adoption, Invest Nova Scotia

FACES2 Active Incident Management System (AIMS), National Research Council of Canada Industrial Research Assistance Program (NRC-IRAP)

Market Development – Food Service Operations, National Research Council of Canada Industrial Research Assistance Program (NRC-IRAP)

Innovative Oyster Retailing Package Project, National Research Council of Canada Industrial Research Assistance Program (NRC-IRAP)



Ramesh Venkat – Marketing

*Adoption of Frictionless Retail Technologies: Key Factors
and Impact, Mitacs*



Meredith Drost – Arthur L. Irving Entrepreneurship Centre

Enhancing Operational Efficiency, Invest Nova Scotia

Building key features and improving campaign performances,
Invest Nova Scotia



Michael Sanderson – Arthur L. Irving Entrepreneurship Centre

L2M - Being there, Mitacs

Enhancing Operational Efficiency, Invest Nova Scotia

Building key features and improving campaign performances,
Invest Nova Scotia





Faculty of Science

Gregory Christian – Astronomy & Physics

Direct and Indirect Studies of Astrophysical Reactions,
Natural Sciences and Engineering Research Council,
Discovery Grant, Subatomic Physics, Individual



Ivana Damjanov – Astronomy & Physics

Mass and structural growth of quiescent galaxies in the cosmic web over the last 6 billion years of cosmic time,
Natural Sciences and Engineering Research Council,
Discovery Development Grant



Luigi Gallo – Astronomy & Physics

The Ins and Outs of Black Hole Accretion, Natural Sciences and Engineering Research Council, Discovery Grant

Toward the event horizon with XARM, Canadian Space Agency

XRISM Observations of Active Galaxies, Canadian Space Agency



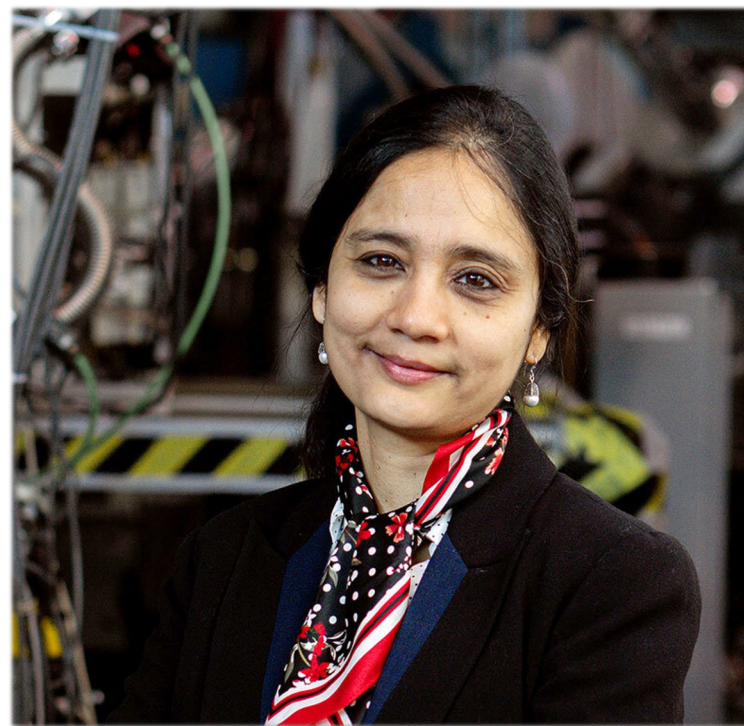
Vincent Hénault-Brunet – Astronomy & Physics

*Dynamically probing the dark side of globular clusters:
from central black holes to the Milky Way halo,* Natural
Sciences and Engineering Research Council, Discovery
Grant



Rituparna Kanungo – Astronomy & Physics

Towards a new global view of nuclear structure and nuclear matter through nuclei with large neutron to proton ratio, Natural Sciences and Engineering Research Council, Discovery Grant, Subatomic Physics, Individual



Adam Sarty – Astronomy & Physics

Executive Coaching: Where, When, And How It Works?
Designing A Framework To Evaluate Executive Coaching
Effectiveness On Leaders' Occupational Health, Self-
Efficacy, Learning, Performance, And Business Outcomes,
Mitacs



Marcin Sawicki – Astronomy & Physics

*Exploring Cosmic Noon and Cosmic Dawn with JWST
Guaranteed Time Observations*, Natural Sciences and
Engineering Research Council, Discovery Grant

Completing the SMACS 0723 NIRISS WFSS EROs,
Canadian Space Agency

*Maximizing the Science Impact of NIRISS Pure Parallel
Observations*, Canadian Space Agency

Galaxy Building Blocks at High Redshift, Canadian Space
Agency

Silver Bullet for Dark Matter, Canadian Space Agency

Super-charging Euclid's Deep Field North, Canadian
Space Agency



Robert Thacker – Astronomy & Physics

*Toward more robust numerical and observational
comparisons*, Natural Sciences and Engineering
Research Council, Discovery Grant



Colleen Barber – Biology

Variation in reproductive strategies and parental investment in an urban-thriving songbird, Natural Sciences and Engineering Research Council, Discovery Development Grant

*European Starling (*Sturnus vulgaris*) Egg Collection to monitor contaminants in the Atlantic Region*, Environment and Climate Change Canada



Susan Bjornson – Biology

*Factors that influence chronic disease in beneficial
arthropods: The effect of stress and natural compounds,*
Natural Sciences and Engineering Research Council,
Discovery Development Grant



David Chiasson – Biology

Improving symbiotic performance for enhanced plant nutrition, Natural Sciences and Engineering Research Council, Discovery Grant

Exploring and understanding the conditions required to grow Salicornia in a sustainable manner using wastewater from the Lobster Hub facility, Invest Nova Scotia



Anne Dalziel – Biology

Mechanisms contributing to the evolution of salinity tolerance in euryhaline fish, Natural Sciences and Engineering Research Council, Discovery Grant



Timothy Frasier – Biology

Understanding the strength and demographic consequences of inbreeding depression in the wild, and the subsequent implications for conservation, Natural Sciences and Engineering Research Council, Discovery Grant

Genetic analysis of 60 archaeological specimens, National Science Foundation/Western Carolina University

North Atlantic Right Whale genetics work, Fisheries and Oceans Canada

Decoding Whale Poop: New Technologies for Analyzing DNA in Whale Fecal Samples, New England Aquarium Corp.

Integrated genetic and spatial network analyses for the St. Lawrence Estuary beluga population, Mitacs

Testing the relationships between balancing selection and deleterious genetic mutations in four endangered species of whale, Mitacs



Ellie Goud – Biology

Mining atmospheric CO₂: Assessing the efficacy of novel carbon sequestration strategies in smelter damaged ecosystems to achieve net zero GHG emissions, Nipissing University/Natural Sciences and Engineering Research Council, Alliance Grant

Plant responses to multiple interacting stressors: ecological and evolutionary mechanisms, Natural Sciences and Engineering Research Council, Discovery Grant

Evaluating the effects liming restoration on lake shore plant communities in acidified watersheds, Southwest Nova Biosphere Reserve Association



Karen Harper – Biology

Vegetation structure across forest edges in heterogenous landscapes, Natural Sciences and Engineering Research Council, Discovery Grant

Anthropogenic impacts on vascular plants and at-risk lichens in forested wetlands in Nova Scotia, Department of Natural Resources and Renewables, Habitat Conservation Fund

Vegetation patterns in coastal dunes in Brazil, Mitacs



Sean Haughian – Biology

Living Lab – Nova Scotia, Nova Scotia Federation of
Agriculture

*Developing a Bryophyte Flora Checklist for Prince Edward
Island*, The Government of Prince Edward Island



Jeremy Lundholm – Biology

Plant biodiversity and spatial heterogeneity influences on vegetation restoration in coastal wetlands, Natural Sciences and Engineering Research Council, Discovery Grant



Genlou Sun – Biology

Disentangling evolutionary role of whole genome duplication on adaptability of autopolyploid to abiotic stress, a case study on salt stress, Natural Sciences and Engineering Research Council, Discovery Development Grant



Laura Weir – Biology

*The influence of ecological variation on mechanisms
of sexual selection and mating system structure,*
Natural Sciences and Engineering Research Council,
Discovery Grant



Christa Brosseau – Chemistry

Innovative Plasmonic Platforms for Advanced Molecular Sensing, Natural Sciences and Engineering Research Council, Discovery Grant

ACESCentre: Atlantic Canada Environmental and Sustainable Chemistry Centre, Memorial University of Newfoundland/Research Nova Scotia

Sample preparation and analysis, ClearDynamic

Investigating biomarkers that require an antibody and/or other recognition element modification, Myomar Molecular

Development of A Novel Immunoassay Platform for the Monitoring of Muscle Health Biomarkers in Urine, PEI Bioalliance Inc.

Advancement of a Precision Diagnostic Tool for Detecting Muscle Atrophy-Associated Small Molecules, Mitacs



Jason Clyburne – Chemistry

Preparation, characterization, and reactivity of small electrophilic cations, Natural Sciences and Engineering Research Council, Discovery Grant



Jane Ferguson – Chemistry

Thermophysical Properties of Molten Salts, Natural
Sciences and Engineering Research Council,
Discovery Grant



Jason Masuda – Chemistry

*Stabilization of Unique Chemical Bonding Environments
and Exploration of Small Molecule Reactivity*, Natural
Sciences and Engineering Research Council, Discovery
Grant



Cory Pye – Chemistry

Speciation and Thermochemical Properties of Aqueous Systems at High Temperatures and Pressures, University of Guelph/Natural Sciences and Engineering Research Council



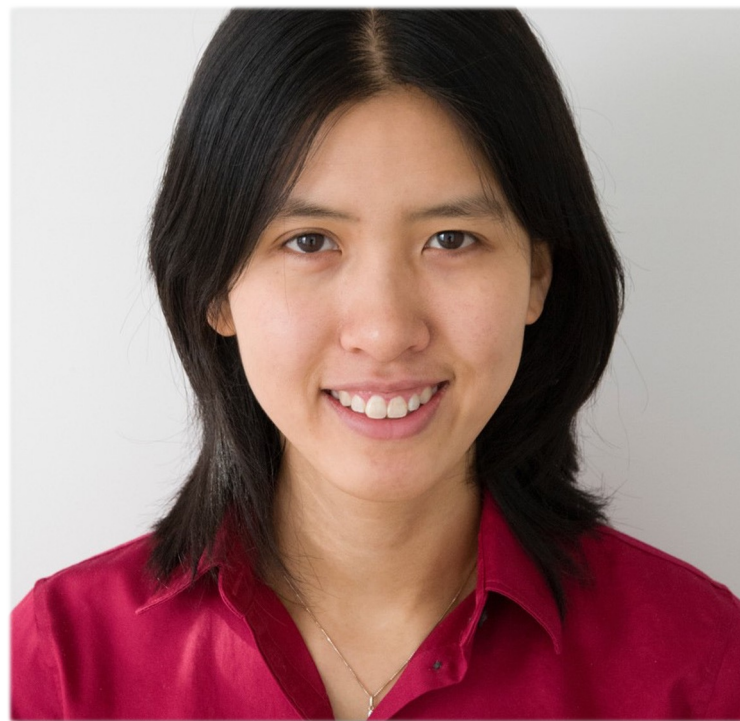
Robert Singer – Chemistry

New Materials, Separations and Catalysis with Ionic Liquids,
Natural Sciences and Engineering Research Council,
Discovery Grant



Clarissa Sit – Chemistry

The chemical origins of biological interactions: an evolutionarily refined approach for natural products discovery, Natural Sciences and Engineering Research Council, Discovery Grant



Danielle Tokarz – Chemistry

Controlling the outcome of reactions in macromolecular systems: Measurement of structural dynamics during synthesis and degradation in biologically relevant polymers, Natural Sciences and Engineering Research Council, Discovery Grant

Researching, designing, and simulating a first-of-its-kind plastic recycling facility processing 1.2 million pounds of plastic pellets per year, Mitacs



Ehab Elsharkawi – Engineering

Process Optimization of Seaweed-Based Bioplastics,
Invest Nova Scotia



Donald MacNeil – Engineering

L2M – Alaagi, Mitacs



Adel Merabet – Engineering

Optimization, Management, and Supervision of Clustered Microgrids for Sustainable Energy in Smart Communities and Cities, Natural Sciences and Engineering Research Council, Discovery Grant

Optimizing Sustainability: Analyzing and Refining Heat Distribution in FilamentPro for 3D Printing Waste Recycling, Invest Nova Scotia

Improvement of waste recycling from food manufacturing and packaging, Invest Nova Scotia



Jason Rhinelanders – Engineering

Reducing the 3D rendering process while maintaining a high-quality output of frames, Invest Nova Scotia

Camera-Based Motion Capture for Blender: Accelerating Animation Through Open-Source Innovation, The National Research Council of Canada Industrial Research Assistance Program (NRC-IRAP)



Samuel Veres, Dean of Science – Engineering

Development, control, and functional significance of variations in collagen fibril nanostructure, with application to the creation of novel biomaterials,
Natural Sciences and Engineering Research Council,
Discovery Grant



Erin Adlakha – Earth Science (Geology)

Linking high spatial resolution accessory mineral chemistry and geochronology to large-scale ore-forming hydrothermal processes in the crust, Natural Sciences and Engineering Research Council, Discovery Grant

Critical mineral deposits associated with metasomatic iron alkali calcic (MIAC) systems of the Cobequid-Chedabucto fault zone (CCFZ), Nova Scotia, Department of Natural Resources Canada

Mineralogy of a newly discovered Ni-Co-PGE occurrence, Department of Natural Resources Canada



Jacob Hanley – Earth Science (Geology)

Intrusion-related critical metal deposits throughout the Appalachian orogen: constraining melt fertility and the magmatic-hydrothermal transition, Natural Sciences and Engineering Research Council, Discovery Grant

Intrusion-Related Critical Metal (Sn-W-Mo-Cu-Zn-In-Li) Deposits In The Appalachian Orogen: Constraining Magma Ore Metal Fertility Through Coupled Zircon-Melt Inclusion Analysis, Natural Resources Canada

Integrating melt and fluid inclusion geochemistry with zircon geochemistry to evaluate end-member magmas, volatile exsolution and critical metals fertility in the Davis Lake Pluton, Port Mouton Pluton, and Mersey Point Ultramafic Dyke, Nova Scotia Department of Natural Resources and Renewables

Sn-W potential in Southwest Nova Scotia, Nova Scotia Department of Natural Resources



Dawn Kellett – Earth Science (Geology)

Faults and fluids in accretionary orogens, Natural
Sciences and Engineering Research Council,
Discovery Grant



Jillian Kendrick – Earth Science (Geology)

*The role of metasediments in Archean vs Phanerozoic
geochemical cycles*, Natural Sciences and Engineering
Research Council, Discovery Grant



Todd Ventura – Earth Science (Geology)

Multi-Molecular Characterization of Complex Matrices for the Detection of Geochemical Processes, Natural Sciences and Engineering Research Council, Discovery Grant

Constraining offshore methane leakage from plugged and abandoned petroleum wells using marine microbial genomics, University of Calgary/Natural Sciences and Engineering Research Council

Triassic-Early Jurassic Central Atlantic and mid-Cretaceous Scotian Margin Geochemical, Organic, and Biostratigraphic Events – a test case for molecular sequence stratigraphy, Mitacs



Shawna White – Earth Science (Geology)

Understanding how tectonic inheritance controls the evolution of mountain belts, Natural Sciences and Engineering Research Council, Discovery Grant

Determining Control and Timing of Gold Mineralization in the southern Long Range Mountains, west NL., Fishhawk Gold Corp



Erin Cameron – Environmental Science

Soil invertebrates under global change, Natural Sciences and Engineering Research Council, Discovery Grant

Indigenous Knowledge of Berries in the Northwest Territories, Environment and Climate Change Canada

Indigenous Knowledge of Berries in the NWT, The Government of the Northwest Territories

Shallow shotgun metagenomic eDNA biomonitoring of Atlantic Canada's grazed (agro) ecosystems, Genome Atlantic/Research Nova Scotia

Science and Technology (S&T) Internship Program – Green Jobs, Clean Nova Scotia Foundation/Natural Resources Canada



Linda Campbell – Environment Science

Developing an in-situ risk management strategy for enhancing natural recovery of highly contaminated gold-mine-tailing impacted wetlands, Natural Sciences and Engineering Research Council, Alliance Grant

Red Swamp Crayfish Population Study, Fisheries and Oceans Canada

Clean Leadership Summer Internships Program, Clean Nova Scotia Foundation

Geochemistry of historical gold mine tailings in wetland sediments & testing remediation amendment applications, Mitacs



Aldona Wiacek – Environmental Science

Integrated measurements of GHG emissions at an intermediate port, Natural Sciences and Engineering Research Council, Alliance Missions

Atmospheric composition measurements for air quality and climate studies, Natural Sciences and Engineering Research Council, Discovery Grant

The HAWC satellite mission: High-altitude Aerosols, Water vapour, and Clouds, University of Saskatchewan/ Foundation for Innovation (CFI)



Yasushi Akiyama – Mathematics & Computing Science

*Design and development of information systems for
Nova Scotia's Women's Centres, Mitacs*



Manuela Girotti – Mathematics & Computing Science

Integrable Probability and Universality in Mathematical Physics and Machine Learning, Natural Sciences and Engineering Research Council, Discovery Grant



Mengjun Hu – Mathematics & Computing Science

Explainable three-way data analytics, Natural Sciences and Engineering Research Council, Discovery Grant

Explainable three-way approaches to continual learning models and applications, Natural Sciences and Engineering Research Council, Alliance



Somayeh Kafaie – Mathematics & Computing Science

Optimizing Healthcare Delivery: Advanced Computational Methods for Safe Medication Practices in Nova Scotia's Aging Population, Research Nova Scotia, New Health Investigator Grant

Legacy Research Grant, LungNSPEI

Improving content engagement and fostering visitor engagement, Invest Nova Scotia

A Decentralized AI Chatbot Network, Invest Nova Scotia

From Data to Drug Safety: AI-Powered Insights for Polypharmacy and Pharmaceutical Complexes, Mitacs

Advanced Computational Methods for Safe Medication Practices in Nova Scotia's Aging Population, Mitacs

Investoready - Girls & Women, Mitacs



Stavros Konstantinidis – Mathematics & Computing Science

*Representational, Algorithmic and Applied Aspects of
Word Relations*, Natural Sciences and Engineering
Research Council, Discovery Grant



Pawan Lingras – Mathematics & Computing Science

Generalized sequential data mining using enhanced object representations based on preliminary clustering profiles,
Natural Sciences and Engineering Research Council,
Discovery Grant

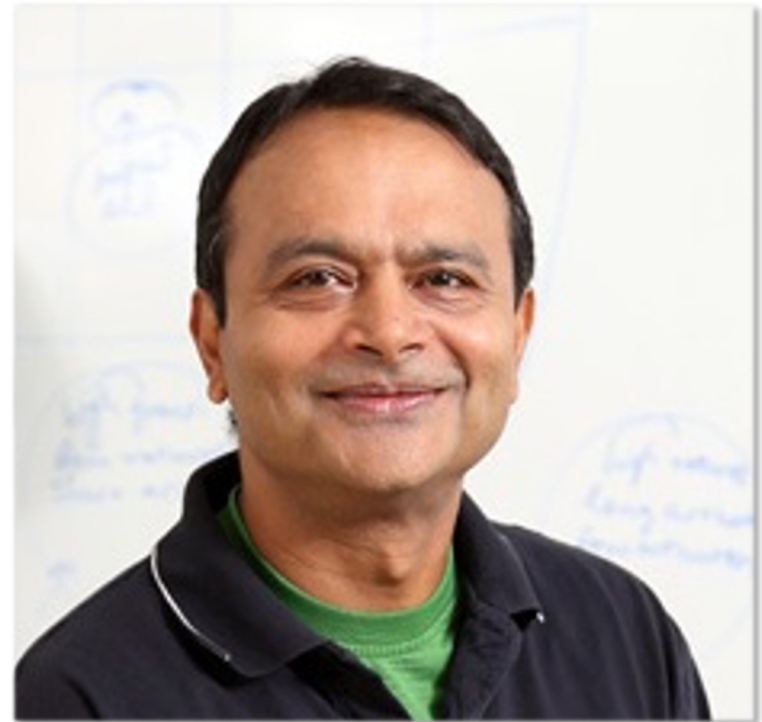
Enhancing Wellness Schedule with Machine Learning, The
National Research Council of Canada Industrial Research
Assistance Program (NRC-IRAP)

Enhancing Wellness Schedule with Machine Learning,
Invest Nova Scotia

Automating assessments to improve readers program,
Invest Nova Scotia

Scaling Up Kardio Diagnostix App, Invest Nova Scotia

*Beta version of automated reading assessment for Halifax
Learning using Machine Learning,* Invest Nova Scotia



Pawan Lingras – Mathematics & Computing Science

Sequential Temporal Supervised and Unsupervised Learning for tracking and improving user performances, Mitacs

Biomechanical indicators of athlete performance, mental readiness, and injury prevention, Mitacs

Development of a Domain-Specific Q&A System for the Financial Services Industry, Mitacs

Deep Learning Inspired Profiling, Predictive Analytics and Optimization of Employee Schedules, Mitacs

Automation of Phonological Skills Assessment with Machine Learning, Mitacs

Building Large Task Models to Create a General AI Admin Assistant for SMEs, Mitacs

Artinus Cost-effective NLP solutions for digitization, translation, and insights of domain specific corpora, Mitacs

DevOps of Descriptive and Predictive Analytics for Efficient Energy Supply and Work and Asset Management, Mitacs

Optimizing Airport Operations Through Advanced Machine Learning, Mitacs

Mitja Mastnak – Mathematics & Computing Science

Hopf algebras, combinatorics, and operator theory,
Natural Sciences and Engineering Research Council,
Discovery Grant



Jiju Poovvancheri – Mathematics & Computing Science

Towards Seamless Interaction and Navigation in Virtual Worlds using Multiple 3D Sensors, Natural Sciences and Engineering Research Council, Discovery Grant

Design and development of a DRL-based framework for real-time vehicle recognition, Invest Nova Scotia



James Rickards – Mathematics & Computing Science

*Thin groups, quaternion algebras, and computational
number theory*, Natural Sciences and Engineering
Research Council, Discovery Grant



Margherita Cameranesi – Psychology

Listening to the Voices of Young Refugees Survivors of Gender-Based Violence to Learn About the Special Strengths and Social Connections that Promote Their Mental Health, Research Nova Scotia, New Health Investigator Grant



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Thank you!