

FOR INFORMATION

PUBLIC

OPEN SESSION

TO: UTSC Academic Affairs Committee

SPONSOR: Bernie Kraatz, Vice-Principal, Research
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PRESENTER: See Sponsor.
CONTACT INFO:

DATE: March 18, 2020 for March 25, 2020

AGENDA ITEM: 10

ITEM IDENTIFICATION:

Annual Report: Office of the Vice-Principal, Research, UTSC

JURISDICTIONAL INFORMATION:

Under section 5.1 of the Council's Terms of Reference, research planning is within the Council's area of responsibility

GOVERNANCE PATH:

1. UTSC Campus Council [For information] (March 10, 2020)
2. **UTSC Academic Affairs Committee [For information] (March 25, 2020)**

PREVIOUS ACTION TAKEN:

This item was presented for information at the UTSC Campus Council meeting on March 10, 2020.

HIGHLIGHTS:

The annual report presentation for the Office of the Vice-Principal Research provides an overview of UTSC faculty research outputs, funding and awards for 2018-19. In addition, the presentation highlights the Office's supports, services and other initiatives for the UTSC community.

In 2018-19, the Office of the Vice-Principal Research supported 266 research faculty at UTSC. Our services include professional grant reviews, funding information sessions, administrative support for grant submissions and a variety of internal funding programs.

We invite you to review the annual report presentation and learn about:

- **22 research stories** featuring UTSC faculty, postdoctoral fellows and students across the departments and disciplines
- UTSC's newest **Canada Research Chairs**, Professor Hilary Brown (ICHS) and Professor Myrna Simpson (DPES), and other CRC holders from UTSC
- Recipients of prestigious **external research awards and honours**:
 - Royal Society of Canada – Fellow
 - Royal Society of Canada – College of News Scholars, Artists and Scientists
 - CIFAR AI Chairs
- Recipient of **UofT research awards and honours**:
 - Connaught Global Challenge Award
- Recipients of **UTSC research awards and honours**:
 - Principal's Research Award
 - Research Excellence Faculty Scholar
 - Research Recognition Award
- **Publications** by UTSC research faculty:
 - 625 journal articles
 - 12 Books
 - 54 Book chapters
 - 147 Other publications (reviews, conference papers, editorials, notes, letters, short surveys, exhibitions)
- **Research funding** obtained by our research faculty: over \$13M in total for 2018-19
- **Statistics** related to funding sponsors, grant success, commercialization, entrepreneurship and faculty supervision at UTSC
- Recipients of **student awards** and student **outreach activities**
 - UTSC Undergraduate Research Poster Forum
 - UTSC Undergraduate Research Prize
 - UTSC Graduate Student Research Award
 - Let's Talk Science and Science Rendezvous
- Research **lectures and events**:
 - Celebration of Research Excellence Lecture Series
 - New Frontiers Seminar Series

FINANCIAL IMPLICATIONS:

N/A

RECOMMENDATION:

Presented for information.

DOCUMENTATION PROVIDED:

Report - Annual Research Report, 2018-2019

PowerPoint presentation - Research and Innovation at U of T Scarborough



UNIVERSITY OF
TORONTO
SCARBOROUGH

Office of the Vice-Principal Research

ANNUAL REPORT 2018-19



Research & Innovation





Con- tents

MESSAGE FROM VPR	4
IMPACT BY THE NUMBERS	6
OUR STORIES	8
FACULTY AWARDS	24
STUDENT AWARDS	26
RESEARCH EVENTS	27
OUTREACH	28
RESEARCH FUNDING	30
SELECT PUBLICATIONS	50

Message from VPR

Research and Innovation are Front & Centre

at the University of Toronto Scarborough

From its early beginnings, this campus, as an integral part of the University of Toronto, has inspired and educated students to become problem solvers of tomorrow. Our world-class faculty are research leaders in their fields, and engage students across a wide spectrum of disciplines, with a commitment to excellence. Our academic community of scholars creates an environment where leading humanists, social scientists, artists and scientists challenge ideas and focus on problems that matter. This supportive environment has helped generate some of the most exciting work in the world, with our researchers translating ideas into innovative policy, new products and services, jobs, companies, and community initiatives that are having a broad and deep real-world impact that benefits the lives of Canadians and many others.

The campus and its research environment continue to evolve in exciting ways. The University of Toronto Scarborough's new strategic plan, *Inspiring Inclusive Excellence*, brings into focus the collective desire of our campus and the broader University of Toronto to further develop and mobilize the capacity in people and infrastructure necessary to fully realize the potential and aspirations of our



internationally renowned research and innovation community. In so doing, the plan also provides a framework for enhancing our global prominence as a centre of excellence for research partnerships and knowledge translation.

Our students are an essential part of our research and innovation community, and we are committed both to ensuring that they gain research experience as early as possible and that we provide a top-notch experience for our growing body of graduate students and postdoctoral fellows. Nurturing entrepreneurship is an important element of that experience, and The Hub and The BRIDGE provide innovation spaces where students from across the disciplines can explore ideas and launch successful businesses.

Our vision is simultaneously local and global. Our collective promise to our city, the eastern Greater Toronto Area and, indeed, the world, is to deepen knowledge and uncover innovations that push the frontiers of human conditions.

In these pages, you'll discover just a small fraction of the exciting work our researchers and innovators are doing to tackle some of the pressing issues currently confronting humanity. We invite you to follow our research news and share in this exciting world of discovery and impact.

H. Bernie Kraatz, PhD, FRSC
Professor and Vice-Principal Research

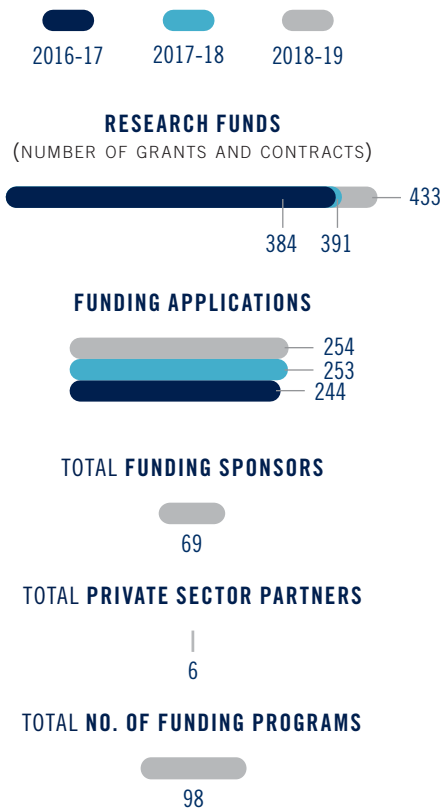


**Our students
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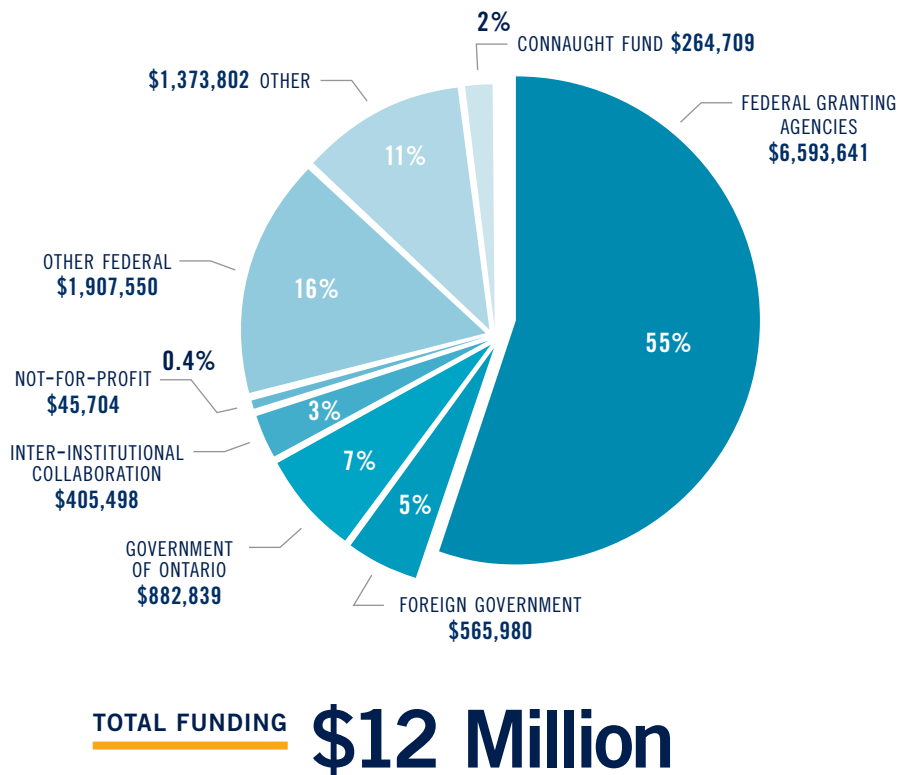


Impact by the Numbers

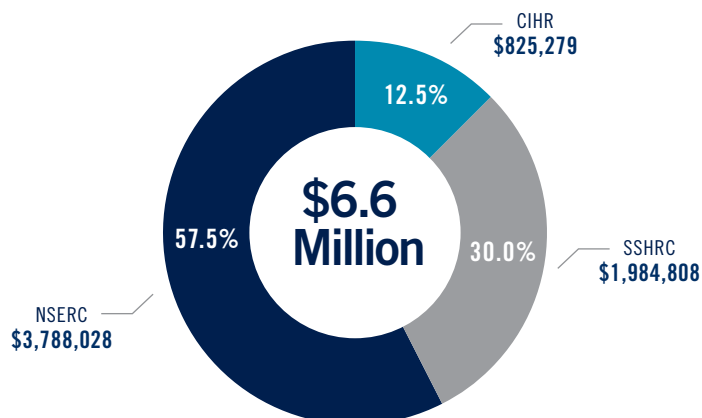
General Statistics (BY YEAR)



Total Research Funding by Source



2018-19 Tri-Agency Funding



Entrepreneurship – The Hub (2018-19)

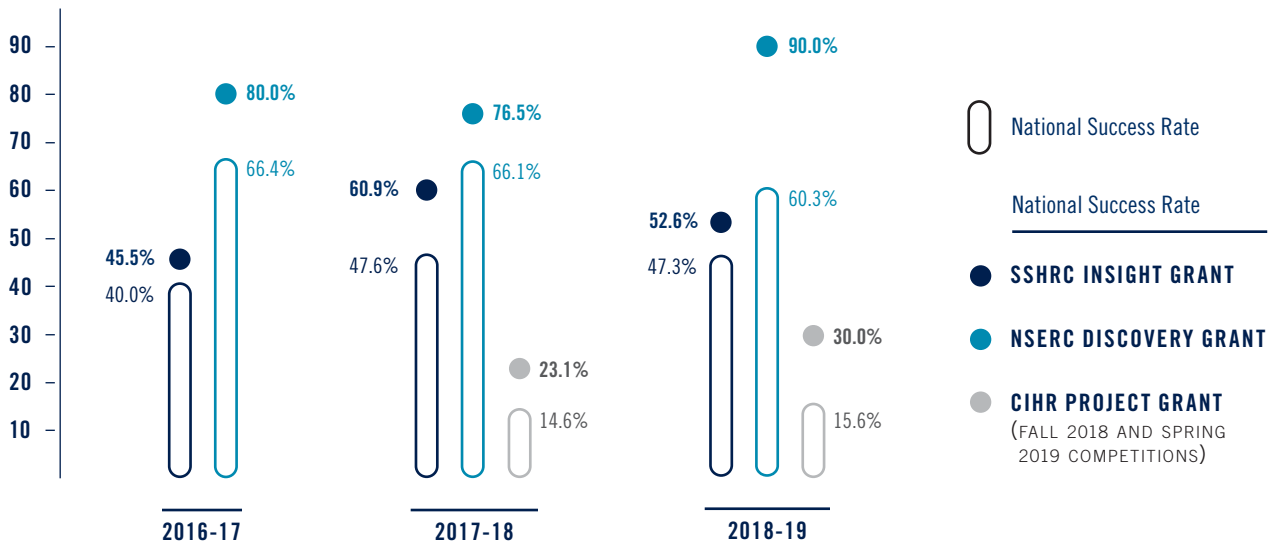
COMBINED REVENUES OF HUB COMPANIES IN RESIDENCE

\$268,000

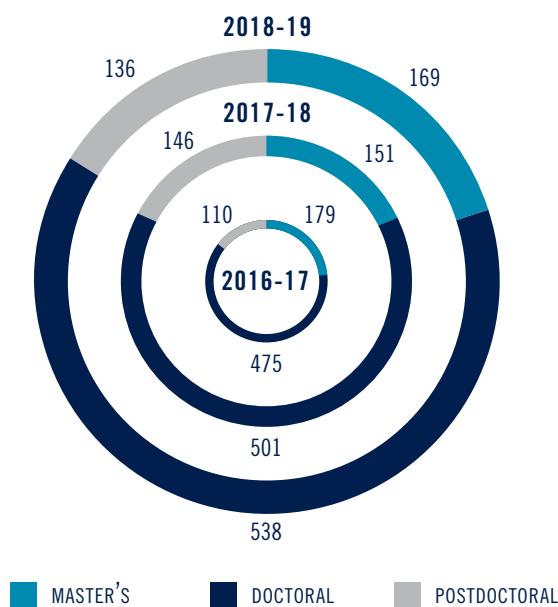
650 STUDENTS PARTICIPATED IN HUB EVENTS

30 COMPANIES FORMED

Grant Success



Supervisions by U of T Scarborough Faculty



TOTAL

2018-19 **843**

2017-18 **798**

2016-17 **764**

2018-19 Statistics

RESEARCH FACULTY

266 2017-18 — 250
 2016-17 — 239

PUBLICATIONS

JOURNAL ARTICLES — **625**
 BOOK CHAPTERS — **54**
 BOOKS — **12**
 OTHER — **147**

Commercialization

	2014-15	2015-16	2016-17	2017-18	2018-19*	TOTAL
NEW INVENTION DISCLOSURES	●●	●	●●	●●	●●●●	9.7
PRIORITY PATENT APPLICATIONS FILED	●		●●	●	●●●	7
LICENSES AND OPTION AGREEMENTS				●	●●●	4
STARTUP COMPANIES FORMED BY FACULTY	●●		●			3

* Data for 2018-19 is preliminary and may change until finalized in 2020.

Our Stories



The colourful history of the 'perfect nuisance'

Often viewed as a 'perfect nuisance,' the macaque monkeys that live among Gibraltar's residents are the focus of *Monkey Tales*, a book by **Larry Sawchuk**, a professor of anthropology at U of T Scarborough, and his former PhD student **Lianne Tripp**, now an assistant professor at the University of Northern British Columbia.

Sawchuk, a medical anthropologist who studies the human population in Gibraltar, has been fascinated by the macaques since he started visiting the peninsula 40 years ago. With *Monkey Tales*, he wanted to explore the story of how humans and monkeys share the same space.

The iconic monkeys were so important to British interests in Gibraltar that by the early 20th century their care was entrusted to the army – and led to likely one of the earliest official forms of primate conservation in the British empire.

Today, because of better management policies and control, it's a lot harder to spot them on the streets, yet they remain the only wild population of monkeys in Europe. They're also the top tourist attraction in Gibraltar, with droves of people flocking up 'the rock' to get an up-close look.

Monkey Tales is a well-researched yet engaging read, weaving a rich tapestry of sources from the archives in Gibraltar, the National Archives in London and the U of T library, which provided invaluable documents dating back to the early 1800s.



Lianne Tripp (left)
and Larry Sawchuk



A decade of supporting in-depth ethnographic research

In 2018, the Centre for Ethnography (CE) celebrated its 10-year anniversary at U of T Scarborough. Its work continues to be a marathon rather than a sprint.

Ethnographic research aims to detail the lives of people in a particular community. Researchers repeatedly return to the same community to create a detailed and historically rich narrative. "It's not a quick go in with your questionnaire, ask a few questions and depart," says CE Director **Donna Young**. "It's always fully immersive; it takes time."

"We go in and try to understand people's lives from their own perspective," says **Michael Lambek**, Canada Research Chair in Anthropology for Ethical Life and a professor of anthropology at U of T Scarborough. *Island in the Stream*, a book he has been writing for 40 years about a community in the Western Indian Ocean, was published in 2018. He has travelled to that community 11 times, and says each time he would find something new.

"I am very proud of the Centre," Young says. "It has been a really lively place and it has assisted a lot of people."



Searching for a pesticide-free way to control venomous spiders

A U of T Scarborough study has found that male black widow spiders follow silk trails left by rival males, using them as “highways” in their search for a potential mate. It had previously been assumed they would avoid rival males because competition is so fierce.

The study’s lead author is **Catherine Scott**, a PhD candidate in Professor **Maydianne Andrade**’s lab at U of T Scarborough. Andrade is a renowned expert on the mating habits of cannibalistic widow spiders.

Scott conducted much of the research in the field.

Working on a Vancouver Island beach, she tracked hundreds of male western black widows and found they were able to locate females from up to 60 metres away, despite being only the size of a grain of rice.

Understanding the chemical communication of black widows could have important practical applications. Western black widow spiders are native to large areas of western North America, and their venom is a neurotoxin in humans. The study’s findings could help eventually develop a pesticide-free way to control them.



Developing disease-resistant vegetables

Plant diseases are responsible for up to 20 per cent of annual crop losses for greenhouse growers. Research led by **Adam Mott**, an assistant professor in the Department of Biological Sciences at U

of T Scarborough, is using advanced genomics to study broad-range resistance – genes that can better protect vegetable crops against pathogens.

It is one of two projects involving U of T researchers that will receive nearly \$2.8 million in funding from the Genomic Applications Partnership Program (GAPP), which is supported by Genome Canada – a not-for-profit funded by the federal government – as well as provincial governments and businesses.

Mott says the team’s previous research discovered an uncharacterized family of genes in an experimental plant that can give plants broader resistance to diseases.

“We want to be able to find the corresponding genes in tomatoes, cucumbers and sweet peppers,” he says. The researchers are working with the Vineland Research and Innovation Centre, which has a massive collection of seeds from those crops.

The technology being developed, which promises to be highly sensitive and scalable, will use advanced genetic sequencing techniques to predict disease outbreaks more efficiently, and can help with timely vaccine design and production.

The ultimate goal of the GAPP project is to develop new varieties of plants that will benefit Canada’s greenhouse vegetable industry, which generates more than \$1 billion in annual sales and exports.





Innovative chatbots help explain financial technology

In the summer of 2018, 75 U of T Scarborough students designed innovative chatbots to answer questions about Canada's growing financial technology (FinTech) industry.

"I wanted to give my students an experience here that would show them what to expect after they graduate," says **Abbas Attarwala**, assistant professor (teaching stream) in the Department of Computer and Mathematical Sciences, who taught the computer science class that tackled the project.

The project, which was launched in partnership with the Digital Finance Institute, had a relatively straightforward goal – create software that can understand mass amounts of raw data and, when asked questions about that data, can give meaningful responses that imitate human conversation.

The project has taken content contributions from around the world, including from the United Nations, and partnered with the IBM Centre for Advanced Studies to use IBM Watson Assistant, which employs AI and machine learning to understand and answer natural human language.

"Most people would never have the chance to work with [Watson], so seeing what it was capable of and leveraging its ability as part of our final product was something I really looked forward to," says Amol Dosanjh, a computer science student who worked on the project.

The project came to campus via the Acceleration Web, a unique strategic management system developed in The BRIDGE, U of T Scarborough's new multi-purpose learning space. The Web harnesses industry and community partnerships with U of T Scarborough and brings them into the classroom to create work-integrated learning opportunities for students.

The chatbot project is the second time The BRIDGE has incorporated work with an external company into course work. "Our mission is to build these sorts of curricular partnerships, building real products doing real research for real organizations outside of the university and bringing that into the classroom," says **Bill McConkey**, academic director at The BRIDGE.



We need a new way to think about the decarbonization challenge.”



A new vision for fighting climate change

A study from U of T Scarborough proposes a different way to think about tackling climate change: instead of focusing on emission reductions, cut out fossil fuel energy altogether.

“We need a new way to think about the decarbonization challenge,” says Professor **Matthew Hoffmann**, a political scientist at U of T Scarborough who co-authored the study.

The use of fossil energy is taken for granted – whether by individuals or nations – because of various forces that tend to reinforce one another, says Hoffmann, co-director of the Environmental Governance Lab at U of T’s Munk School and an expert on global environmental politics.

Case in point are efforts to replace coal-fired energy with natural gas. Burning natural gas has much lower emissions



than burning coal, but there’s no change in dependence on fossil energy. Governments spend their political capital on steps like these, but are then often resistant to further change, Hoffmann says.

“We’re not hurting for ideas on how to get started,” he says. “The challenge is sustaining and scaling these up, because they don’t go far enough.”

Hoffmann adds that an important way to disrupt carbon lock-in is to build the kind of political and economic coalitions that are going to push for broad and sustained change.

“Without political capital or political momentum to make bigger changes, you won’t be able to build on improvements and change these entrenched energy systems.”

Exploring social phenomena on online media

Undergraduate student **Isaac Waller** was interested in computer science and sociology, but worried the two disciplines weren't compatible. Then he came across work done by **Ashton Anderson**, a U of T Scarborough assistant professor of computer science, who uses computers to simulate, model and analyze social phenomena such as human behaviour and communication.

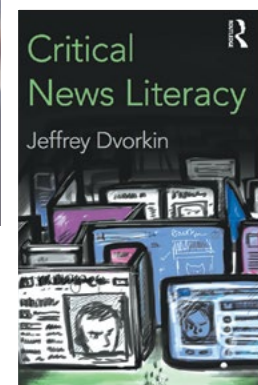
The pair agreed to work together on a faculty-student computer science project for which they took data from Reddit and GitHub communities, and applied a machine-learning model to show the relationships between various online communities. "Studying how they relate to each other and how they influence the people within them is fascinating," says Waller.

"After exploring different directions in study of online communities, we eventually got most excited about looking at generalists and specialists," says Anderson.

Their conclusions? Specialists are more likely to produce higher-quality replies and stay in communities they contribute to, while generalists are much more likely to remain on the platform as a whole.

In 2019, Waller presented their research at The Web Conference, an international conference attended by top-tier academic researchers as well as representatives from tech giants like Google, Netflix and Amazon.

Isaac Waller (left) with Ashton Anderson



Navigating the 'fake news' era

Jeffrey Dvorkin recalls that when he began his journalism career at CBS News in 1972, "the assumption was that no one is going to lie to you. We may have been a bit naive, but it was also about how news and information was a kind of cultural glue that kept a society together."

Nearly 50 years later, Dvorkin is director of the journalism program at U of T Scarborough, where graduates engage an entirely transformed media environment. To prepare them, he wrote *Critical News Literacy*, a textbook that hit shelves in the summer of 2018.

The book covers topics including truth and verification, bias (both good and bad), deconstructing news and its sources, and the consequences of fake news. The book also calls for the "best traditions of journalists" – which Dvorkin dubs "curiosity and skepticism" – to be imparted to the public. He was inspired to write the book while redesigning the introductory courses for the U of T Scarborough journalism program in 2017, when he realized his 12 lectures could be written into chapters.

One of the book's major themes is understanding what constitutes reputable information, suggesting the acronym "VIA," which stands for verification, independence and accountability.

"If one of those elements might be missing from a piece of journalism or a news report that you're looking at, reading, or listening to, then you should be questioning the whole thing," Dvorkin says. "There's still a lot of people who are easily changed by that misinformation and disinformation."

He says the solution is to develop a new set of instincts. Dvorkin hopes that *Critical News Literacy* will introduce students to the idea that it is acceptable to take regular breathers from technology. "It's a big challenge, but it's one that I think is urgently needed at this point."



Inexpensive, eco-friendly gel can heal injured tissue

Natashya Falcone, a PhD candidate and member of Professor **Bernie Kraatz's Research Group**, hopes her fascination with gels and their healing qualities will lead to a more cost-effective and environmentally friendly way to heal damaged tissue.



Natashya Falcone

Falcone uses amino acids and peptides to make a water-based gel, or hydrogel. Hypothetically, if someone lost a piece of flesh on their arm, the gel could be injected to support the cells working to regrow that missing tissue.

“If we get this hydrogel and cells can grow in it, I’ll be the happiest person ever,” says Falcone. “Getting that result means you can possibly do something good for the industry or for the world.”

Falcone’s project was inspired by the work of **Soha Ahmadi Nadoushan**, a fellow researcher in the Kraatz Research Group.

While similar gels exist elsewhere, they are made of chemical polymers that can be toxic. Falcone’s gel is non-toxic, biodegradable...and cheaper. She says she is “inspired by nature,” looking for ways to imitate or enhance things the body naturally does or is supposed to do.



A partnership to advance cleantech, build a ‘vertical farm’

U of T Scarborough and Centennial College are teaming up to establish the EaRTH District. EaRTH, which stands for Environmental and Related Technologies Hub, will be a knowledge and training centre at U of T Scarborough focused on the development of clean technologies.

Among the partnership’s plans: apply innovative technologies to food production in an urban setting through the development of Canada’s first net-zero vertical farm.

“This commitment is an exciting opportunity to bring economic activity and jobs to the eastern GTA [Greater Toronto Area] in a sector that is only going to become more important in the future,” says **Andrew Arifuzzaman**, U of T Scarborough’s chief administrative officer.

The proposed vertical farm will create training and research opportunities in a variety of fields. And, more broadly, the EaRTH District will bring together industry, governments, community and academia to develop clean technology that can help build more resilient communities.

“It will become a key resource in assisting communities across Canada in tackling issues related to food, water, air, energy, waste, and advanced design and integrative systems,” says Professor **Bernie Kraatz**, U of T Scarborough’s vice-principal of research.

“These are all key areas in understanding how to create resilient communities in the face of climate change.”



One of Canada’s most important documents joins the digital age



Hansard, one of Canada’s richest historical documents, was becoming less useable every year – until a group of U of T political scientists, computer scientists and historians decided to intervene.

Since 1880, every word spoken in Canada’s Parliamentary debates has been transcribed and recorded into Hansard. Reading this massive document, at a pace of about a novel a day, would take 66 years – plus another 28 years to read everything that had been added while reading the original document.

“You have this really unrivaled historical resource that, by virtue of its size and magnitude, is impenetrable,” says **Christopher Cochrane**, an associate professor of political science at U of T Scarborough.

In 2013, Cochrane teamed up with a group including **Graeme Hirst**, a professor of computer science at U of T Scarborough, to create LiPaD: *The Linked Parliamentary Data Project*.

After years of work, LiPaD has digitized and made searchable Canada’s Parliamentary debates dating back to 1901. The debates are also more accessible to the public via a website, thanks to a project headed by PhD student **Tanya Whyte**.

Many of the documents, some more than a century old, were physically damaged with specks, bits of dirt or smudges from printing. This made it challenging for optical character recognition programs, which convert written or printed words into text a computer can read, to correctly register the contents of the pages. To help, the team created rules allowing the computer to recognize common mistakes and giving it instructions to fix them. These rules, Hirst says, can be used by other researchers and machines to understand text.

“If you present the world with an interesting data set, people will find ways to use it that you yourself never thought of,” Hirst says. “I hope that there are people out there doing that with LiPaD right now.”



Christopher Cochrane



One of the goals of the Culinarium program is to help train the next generation of innovators in the system who can facilitate support for food business owners in Scarborough.”



Scarborough: centre of the multicultural food universe

Why has Scarborough become a renowned multicultural food hotspot? For food historian **Jeffrey Pilcher**, the answer is obvious. “In a word, immigration,” says Pilcher, a professor in the Department of Historical and Cultural Studies at U of T Scarborough.

Not only is Scarborough one of the leading immigrant-receiving areas in North America, giving it a real richness and diversity of cuisines, but the immigrants who come to Scarborough have built a “culinary infrastructure” – markets, transportation, sanitation and even knowledge networks.

One of the first things newcomers do when they arrive is find ways to feed their community, notes Pilcher. This extends beyond restaurants and grocery stores that

sell familiar foods to include the infrastructure that allows the system to operate.

The Culinarium Research Centre has been unpacking aspects of this story since it was established at U of T Scarborough five years ago.

One of the goals of the Culinarium program, says Pilcher, is to help train the next generation of innovators in the system who can facilitate support for food business owners in Scarborough.

Another important development in Scarborough’s food history is being explored as part of Scarborough Chinatown, a digital project coordinated by postdoctoral fellow **Camille Bégin** that focuses on Agincourt. Since the 1980s, this area has evolved into one of Toronto’s main “Chinatowns.”



Exploring links between emotion and political activism

When we confront upsetting political events – like a new policy we find immoral or the election of someone we despise – it goes without saying that we will experience negative emotions.

But a U of T Scarborough study finds that reducing those emotions in order to restore our well-being means we become less likely to do things like contact government representatives, attend rallies, or donate our money and time to political organizations.

Brett Ford, an assistant professor in the Department of Psychology, was lead author of the study, which explored a strategy called cognitive reappraisal, which involves people reframing or reinterpreting a negative event in order to manage their emotions and, in turn, feel better.

Ford, whose lab focuses on the effects emotions can have in making people sick or in helping them thrive, says it's important to reiterate that negative emotion can be a powerful, motivating force. "It can be a good thing to 'stay mad,' but there can also be costs associated with that because it is a heavy burden to stay mad over a long period of time."

She adds people can stay politically engaged while still feeling better emotionally by doing things like working in a larger group that values engaging in political action to address a common goal, or cultivating positive emotions like hope or compassion in order to confront negative political events.

Women and entrepreneurship: bridging the gap

The Hub, U of T Scarborough's startup incubator, plays a vital role in helping visionary students start their businesses and reach their full potential. **Gray Graffam**, director of The Hub, felt that not enough effort had been made in Toronto to incorporate women in entrepreneurship. The Hub is helping to change that, by encouraging more women and offering a secure space.

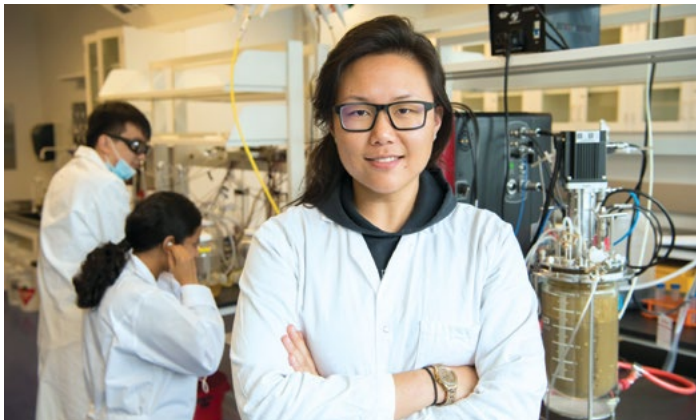
That encouragement seems to have made a difference. At last November's UTSC Startup Competition: Annual Intake into the Hub, 25 student-led initiatives participated in a competition to win support. Of the eight winning startups, six (or 75%) were either led by women or had a female co-founder.

The Hub had \$30,000 to allocate among the eight companies. The winner of the grand prize of \$5,000 was S.O.S. Leather, a social enterprise dedicated to reallocating leather from airline seats to create products and enable people to think about waste and sustainability, and create jobs. Founder **Lynne Corvaglia** is pursuing a degree in International Development Studies at U of T Scarborough.

The Hub plans to continue to support efforts in women's entrepreneurship, with the goal of helping to empower women to pursue their dreams.

UTSC Startup Competition award winners: Ifeoma Amaechi (left), Lynne Corvaglia (centre) and Maryam Abdinejad (right)





Turning food waste into high-quality bio-plastic

Luna Yu is passionate about not wasting food. That passion led her to form a company called Genecis together with a talented group of scientists and engineers – including **Vani Sankar**, a postdoctoral fellow at U of T Scarborough and now Genecis's head of biotechnology. The company uses recent advancements in biotechnology, microbial engineering and machine learning to take food destined for landfill and convert it into high-quality, high-value, fully biodegradable plastics.

Though Yu is only in her early 20s, she has more than six years of entrepreneurial experience, first at a startup software company as an undergrad and then at another startup that converted restaurant food waste into biogas.

Shortly after that experience, she connected with a fellow environmental science student in The Hub, U of T Scarborough's entrepreneurial incubator, to figure out what else could be made from food waste. They decided on PHAs, or polyhydroxyalkanoates, which they felt had the biggest market potential.

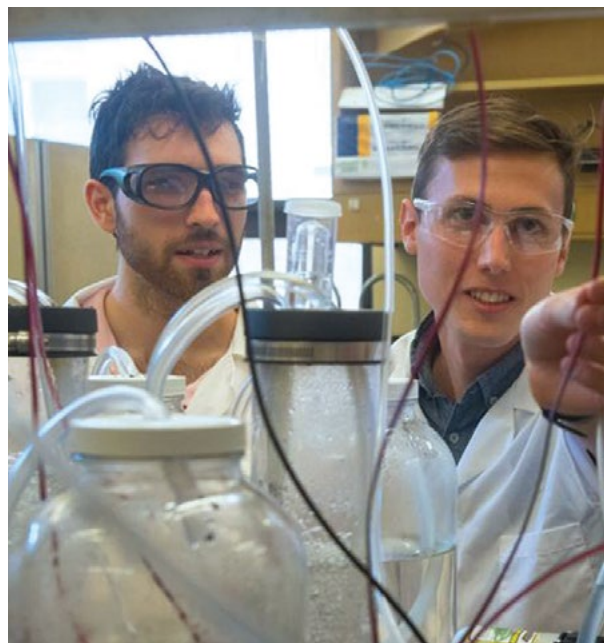
PHAs are a type of polymer produced in nature that have many benefits over other forms of bio-plastics: they can be easily moulded and remoulded into different products; as well, unlike many other forms of bio-plastics, they won't ruin the recycling process. However, what really sold Yu on PHAs is the fact that they are fully biodegradable.

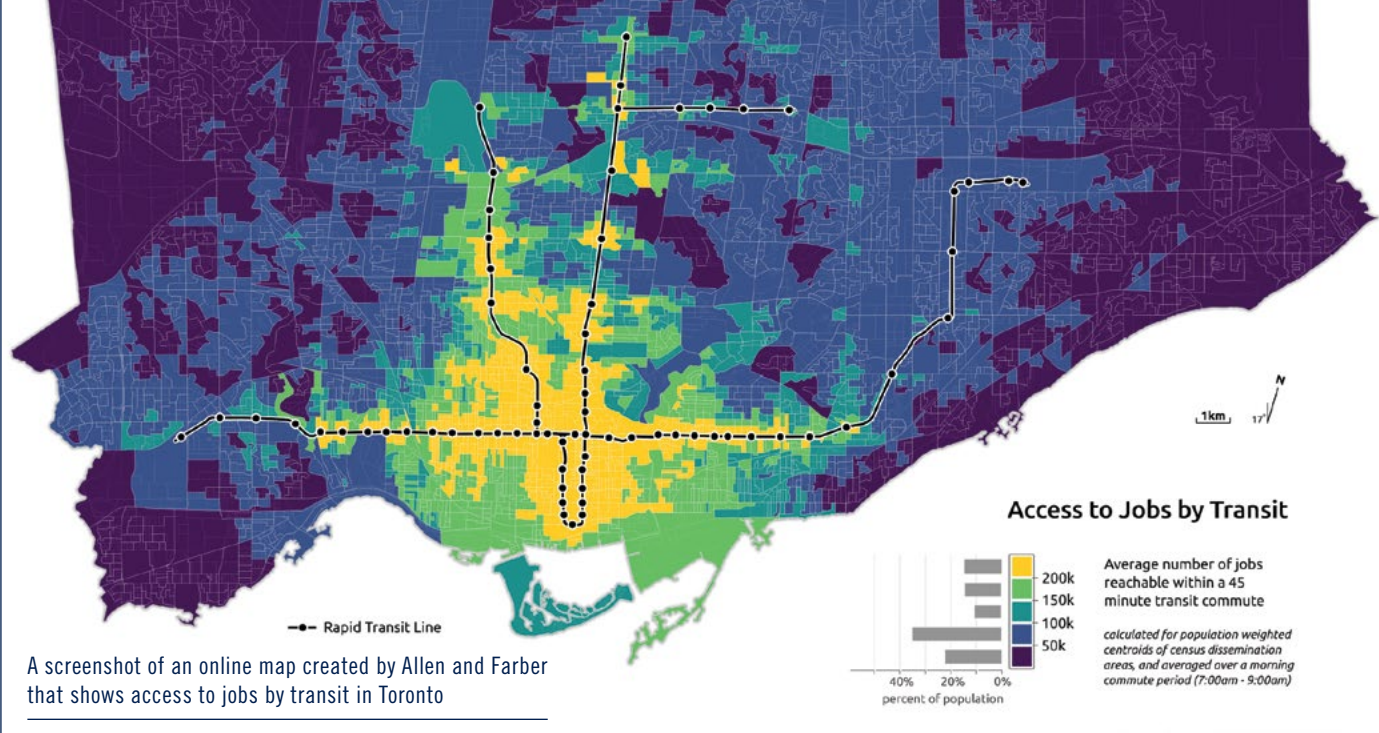
"The PHAs we create can be used to make pretty much anything, but it makes the most economic sense to use it in higher-quality, multi-use products," such as 3D-printing filament and medical applications including surgical staples, sutures and stents, Yu says.

The support, guidance and mentorship they've received from the Hub, among others, has been instrumental in their growth, says Yu. "I can't say enough about the support I received from the Hub. I formed great partnerships with other students there and the mentorship I received was second to none."

The company currently has two locations – their main lab in the heart of Toronto's Discovery District, and the other in the Environmental Science and Chemistry Building at U of T Scarborough, which is responsible for research and development.

The team will soon be expanding their operations into a demonstration plant. Says Yu: "It's a really exciting time for us."





One million urban Canadians suffer from ‘transport poverty’

A small bio-reactor at Genecis’s lab at U of T Scarborough, used to help optimize their production process

Kevin Eriksen, Michael Williamson and Marcos Igrela



If you can’t afford a car or Uber, and there’s no major public transit route in your neighbourhood, finding a job and keeping it can be an uphill battle.

It’s a challenge for up to one million urban Canadians, according to an estimate by **Jeff Allen**, a PhD student in physical geography, and his supervisor **Steven Farber**, an assistant professor in the Department of Human Geography at U of T Scarborough.

Allen and Farber examined the problem in Canada’s most populous urban areas: Vancouver, Calgary, Edmonton, Toronto, Ottawa, Montreal, Quebec City and Winnipeg. They used household demographic and employment data from the 2016 census, among other information, to do a national accounting of so-called ‘transport poverty’ across the country, the first study of its kind.

They conclude that governments currently invest billions of dollars in public transport with very little guidance, and hope their research will offer some useful insights. As more and more people find themselves priced out of downtown, more households could find themselves living at a transport disadvantage, Farber says. By putting the problem on the map, the researchers hope to change the conversation and raise the issue to the national level.





AI can change the game for small businesses

Information technology (IT) was supposed to level the playing field for small businesses and allow them to compete with industry giants. That promise has been realized for some businesses – but not all.

Kristina McElheran, an assistant professor in U of T Scarborough’s Department of Management, is undertaking two research projects to investigate how IT can make, or break, small firms.

“My experience has been that new technologies take far longer to actually change how we conduct business than people realize,” says McElheran. “This transformation is hard and risky, and that makes for slow transitions.”

Her two projects are among 32 recipients of the inaugural Knowledge Challenge grants, an initiative by the Kauffman Foundation to fund researchers addressing problems facing entrepreneurs. Both will run until September 2023.

McElheran’s first project, done in collaboration with the Massachusetts Institute of Technology (MIT), focuses on firms’ use of cloud computing (computer systems housed on servers on the internet instead of a local hard drive) and machine learning (a type of artificial intelligence, or AI, where a computer can learn to perform actions without being programmed).

The data in this study will come from responses to a survey McElheran helped create for the U.S. Census Bureau’s Annual Business Survey in 2017, which was sent to more than 800,000 small business owners and managers of large firms in the U.S.

“We can hopefully find things that are more universally true, across a range of industries and firm settings,” she says. “We can also start to track important new trends, such as machine learning and AI.”

The second project studies the newest robotics and AI technologies, as well as traditional enterprise technology investments. It will use an original methodology to make sense of the data. Typically, major investments in IT appear as “spikes” in investing. This project will delve into the details behind those spikes, and will then compare them with outcomes for these firms.

Conversation puts us on the same wavelength... literally

When two people converse, their brain waves manage to move into synch. Now, thanks to an international study led by **Alejandro Pérez**, a postdoctoral student in the Centre for French and Linguistics and the Department of Psychology at U of T Scarborough, we understand this also happens (in different areas of the brain) even when people speak their non-native tongue.

The study used electroencephalography (EEG) to record the brain activity of 60 participants (all native Spanish speakers with some proficiency in English) while conversations took place. Half of the conversations were entirely in Spanish, while the other half were entirely in English.

Pérez and his team found that when the participants conversed in their second language, the neural activations took place in different areas of the brain.

Pérez’s co-supervisor **Philip J. Monahan**, an associate professor in the Centre for French and Linguistics at U of T Scarborough and an expert on psycho- and neurolinguistics, says the research could be particularly important in multicultural societies in which many people are often speaking more than one language, or switching from one language at home to another in public



Philip J. Monahan (left) and Alejandro Pérez



Untold stories of Black people on the Prairies

At the age of 11, **Karina Vernon** found herself in Olds, Alta., and remembers imagining that she and her sister were the very first Black people to inhabit the Prairies. But then, many years later, she made a chance discovery: a 19th-century account of a journey from Manitoba to British Columbia that described “a solitary negro – a pioneer, cook, trapper, vagrant, idler or squatter as chance suited him.”

Vernon was intrigued and started researching. Eventually she found not only who this man was – Daniel Williams – but also evidence of other Black fur traders. Why didn’t these men appear in Canadian literature and in the history books? “I was stunned,” says Vernon, who is now an associate professor in the English department at U of T Scarborough.

She realized this was an opportunity to put the lives of Black people in the Prairies back into the Canadian historical record. Over 15 years, she did painstaking research, poring over old newsprint and family letters, spending long days in museums and archives, and searching out storytellers, singers and rappers. The result is *The Black Prairie Archives: An Anthology*, a compilation of Black writing from the Canadian Prairies that spans the writings of early Black

homesteaders and traders in the mid-1800s to contemporary writers, including rap artists.

Vernon notes that in the early 1900s, many Black people were leaving Texas, Arkansas and Oklahoma for what they saw as “greater freedom” under British law in Canada – only to face the isolation of the homesteads, a lack of basic amenities, bitterly cold winters...and racism.

The all-Black town of Amber Valley in Alberta, for instance, existed partly as a way for Black people arriving in western Canada to create a sense of community and to distance themselves from racist white settler culture.

Vernon recalls the story of Mildred Ware, a Black homesteader who paid the \$1 fee to have her family’s cattle brand registered, only to find the brand missing when the official brand book was published.

“This moment of opening the book and not finding your mark there, I feel, speaks volumes,” says Vernon. “That’s the Black Prairie experience in a nutshell. You open a book, you know you’re there, but you don’t see yourself represented.”

Vernon sees her book as a riposte – a challenge to the popular image of the Prairies, and a kind of literary ambush of the historical record.



A self-portrait by William (Billy) Beal, a Black settler who arrived in Swan Lake, Man., in 1906



Mildred and John Ware circa 1898 (photo courtesy of the Glenbow Museum and Archives)



Studying mother-baby bonds

A U of T Scarborough study has found that mothers report stronger bonds with their babies after birth if while pregnant they showed increased brain activity when they saw faces of unknown babies.

“Our findings support the idea that over the course of pregnancy and early motherhood, the responses in the brain to infant facial cues actually change,” says **David Haley**, an associate professor of psychology and the director of the Parent-Infant Research Lab at U of T Scarborough.

Most studies focus on the postpartum period (after birth). Haley’s is the first to look at functional changes in mothers’ brains during and after pregnancy.

The early relationship between mothers and infants is widely considered of key importance to childhood development. However, as Haley notes: “There’s been a lot of research on the importance of forming close mother-infant bonds, but little is known about how this bond may start developing in the first place.”

The increased brain activity was seen only among some mothers, says **Joanna Dudek**, who earned her PhD in Haley’s lab and who co-authored the research. The good news is that people can learn to increase their attention bias toward an infant.

“There are studies showing that mothers can do it with infant stimuli, so it’s possible that mothers can learn to increase their attention bias toward the infant,” says Haley.



Our findings support the idea that over the course of pregnancy and early motherhood, the responses in the brain to infant facial cues actually change.”



Targeting mental illness in new mothers

Women with chronic physical conditions such as diabetes, hypertension and asthma are more likely to experience mental illness during pregnancy or shortly after giving birth, and may benefit from targeted strategies to reduce their risk of mental illness, according to **Hilary Brown**, an assistant professor in the Interdisciplinary Centre for Health & Society at U of T Scarborough, and the Canada Research Chair in Disability and Reproductive Health.

Brown and colleagues studied more than 850,000 women in Ontario during the perinatal period, which extends from conception to one year after birth.

She says there are a number of reasons why women with a chronic physical condition may be at increased risk of mental illness, including biological mechanisms, genetic links and social reasons such as the stress of managing a chronic disease, fatigue, sleeplessness or managing pain.

While mental illness negatively affects mothers, infants and families, only about one third of women with perinatal mental illness get the care they need. Yet the risk of mental illness in this group has rarely been studied.

“Identification of high-risk groups, like women with chronic physical conditions, could make the health system more efficient,” says Brown.



Looking at workplace racial harassment

Phani Radhakrishnan, an associate professor in the Department of Management at U of T Scarborough and an expert on cross-cultural differences and ethnic discrimination in the workplace, is researching what causes stereotypes to be promoted in organizations and what the downstream effects are.

Where are companies or employers letting their employees down when it comes to racial harassment or discrimination in the workplace?

The subjects we interviewed reported things like being excluded from conversations or opportunities, or not getting information that would help them do their job. Those are very subtle things that one may not notice right away, but you realize a series of these exclusions collect over time.

Harassment includes derogation like teasing, making jokes and comments. Discrimination is seen in pay, how you are rated on your performance and if you're promoted. And then in the middle, you have a grey area where subtle things happen.

How will a diversifying workforce help to create a change in workplace culture?

It's something to talk about, whether we are helping our students be more aware and advocate when they see discrimination, or speak up when they see people being denied opportunities. I think people have to be aware that this happens, so there will be more people reporting it before we have a sense of numbers. The literature shows people are unlikely to report it. So, for it to be reported for us to assess the number would be a huge societal and organizational shift. Hopefully the new generation will realize that but it's hard to say because it's changed so much, even in the four years of working on this paper. It's hard to predict.

Faculty Awards

INTERNAL



U of T Scarborough Principal's
Research Award 2019

MARLENE GOLDMAN
English



U of T Scarborough Research
Excellence Faculty Scholar Award
2019-22

JASON WEIR
Biological Sciences



U of T Scarborough Research
Recognition Award 2019

RUTSUKO ITO
Psychology



Connaught Global Challenge
Award 2018

MARC CADOTTE
Biological Sciences

EXTERNAL



Royal Society of Canada Fellow 2019

BERNIE KRAATZ
Physical & Environmental
Sciences



Royal Society of Canada, Member
of College of New Scholars, Artists
and Scientists 2018-25

KATHERINE LARSON
English



CIFAR AI Chairs 2019

DAVID FLEET
Computer and Mathematical
Sciences



GENNADY PEKHIMENKO
Computer and Mathematical
Sciences



DANIEL ROY
Computer and Mathematical
Sciences

Canada Research Chairs



Hilary Brown, an assistant professor in the Interdisciplinary Centre for Health & Society at U of T Scarborough, is our new Canada Research Chair in Disability and Reproductive Health. She holds cross-appointments in the Dalla Lana School of Public Health and the Faculty of Medicine's Department of Psychiatry at the University of Toronto, and is also an adjunct scientist at Women's College Hospital and the Institute for Clinical Evaluative Sciences. Her research interests lie at the intersection of maternal and child health and chronic disease epidemiology, with a particular interest in the influence of maternal chronic medical conditions and maternal disabilities on preconception, pregnancy, and postnatal health outcomes.



Myrna Simpson, a professor and the associate director of the Environmental NMR Centre, is now U of T Scarborough's Canada Research Chair in Molecular Biogeochemistry of Soil. Professor Simpson's research group studies environmental processes at the molecular level, and also explores how this information can be used to understand ecosystem and environmental health. Her team develops and uses advanced analytical tools (mass spectrometry and nuclear magnetic resonance spectroscopy) to understand the structure and environmental reactivity of natural organic matter found in soils, sediments, water and ice.

CURRENT CANADA RESEARCH CHAIRS AT U OF T SCARBOROUGH



DANIEL BENDER
Historical and Cultural Studies,
CRC in Global Culture,
2014-2021



KAGAN KERMAN
Physical & Environmental Sciences,
CRC in Bioelectrochemistry of
Proteins, 2016-2021



BRIAN CONNELLY
Management, CRC in
Integrative Perspectives on
Personality, 2016-2021



MICHAEL LAMBEK
Anthropology, CRC in the
Anthropology of Ethical Life,
2006-2020



CENDRI HUTCHERSON
Psychology, CRC in Decision
Neuroscience, 2018-2023



BIANCA SCHROEDER
Computer and Mathematical
Sciences, CRC in Data Centre
Technologies, 2014-2024

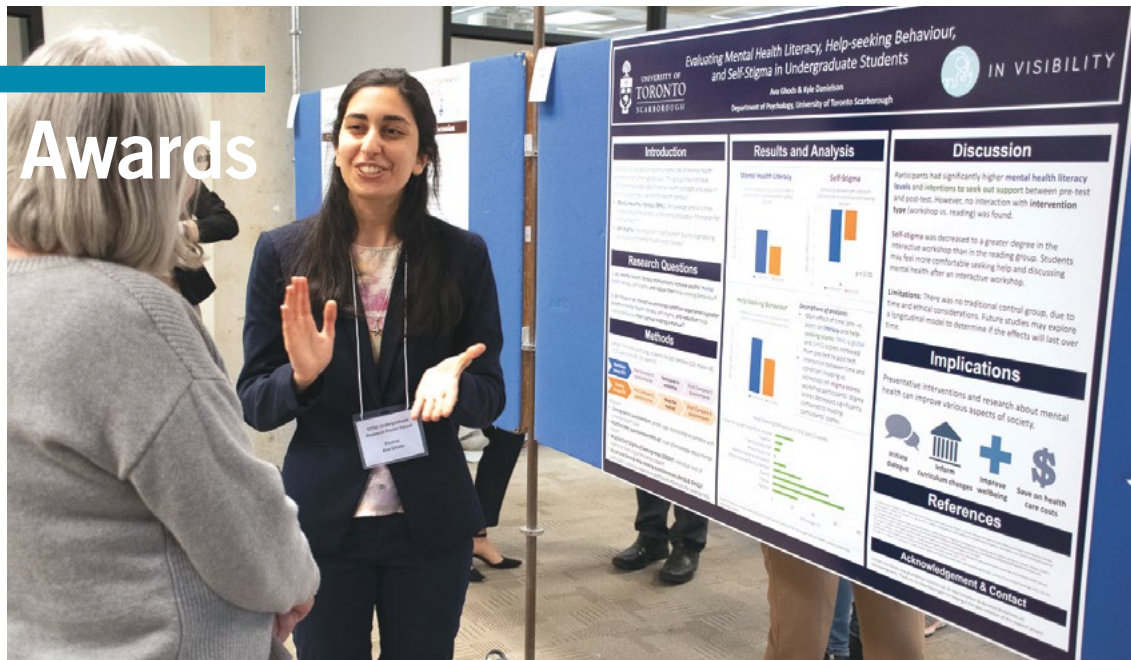


MARNEY ISAAC
Physical & Environmental Sciences
/ Centre for Critical Development
Studies, CRC in Agroecosystems
and Development, 2013-2024



BEBHINN TREANOR
Biological Sciences, CRC in
Spatially Resolved Biochemistry,
2016-2021

Student Awards



2018-19

U OF T SCARBOROUGH UNDERGRADUATE
RESEARCH POSTER FORUM

(Co-sponsored by the Library and the Office of the Vice-Principal Research)

U OF T SCARBOROUGH
UNDERGRADUATE
RESEARCH PRIZE 2018-19

(Co-sponsored by the Library and the Office of the
Vice-Principal Research)

1ST PLACE

NAZIA MOHSIN
Psychology and Centre for French
and Linguistics
Phonetic Symbolism in Urdu



PRAVEEN JAYARAJAN
Biological Sciences



JUDY PERPOSE
Arts, Culture and Media

2ND PLACE

SHENHAB ZAIG
Psychology
Mechanisms of opioid-induced respiratory
depression and analgesia in zebrafish

GRADUATE STUDENT
RESEARCH AWARD 2018-19



TAHIRA GULAMANI
Psychology, Masters level

3RD PLACE

DILAKSHAN SRIKANTHAN
Psychology
Elucidating the Efficacy of Intrathecal
Delivery of CAR-T immunotherapy in
preclinical models of Medulloblastoma



**JOÃO PEDRO FONTENELLE DE
ARAÚJO FREIRE DA SILVA**
Physical & Environmental Sciences,
Doctoral level

Research Events



Bringing the community together to advance the intellectual life of the campus is the goal of U of T Scarborough's **Celebration of Research Excellence Lecture Series**.

This series features award-winning U of T Scarborough faculty presenting cutting-edge research, sharing innovations and discoveries that are advancing new knowledge and improving lives in Canada and around the world.

The 2018-19 series was comprised of eight lectures, featuring leading U of T Scarborough scholars, reflecting the diversity of faculty accomplishments in the humanities, social sciences and physical sciences:

JENNIFER JIHYE CHUN, Sociology

ARTUR IZMAYLOV, Physical & Environmental Sciences

MICHAEL LAMBEK, Anthropology

JEFFREY PILCHER, Historical and Cultural Studies

NATALIE ROTHMAN, Historical and Cultural Studies

ZINDEL SEGAL, Psychology

MYRNA SIMPSON, Physical & Environmental Sciences

JUDITH TEICHMAN, Political Science / Centre for Critical Development Studies

NEW FRONTIERS SEMINAR SERIES

The **New Frontiers Seminar Series** is U of T Scarborough's flagship seminar series, showcasing the newest research being conducted at U of T Scarborough, highlighting and promoting cutting-edge research focusing on innovation and collaboration.

The seminars are designed to reach a broad audience and are presented by the U of T Scarborough Graduate Students' Association, with sponsorship from the Office of the Vice-Principal Research.

Speakers in the New Frontiers Seminar Series 2018-19 were:

CHRISTOPHER DICARLO, Philosophy

TROY DAY, Queen's University, Mathematics and Statistics (Guest Speaker)

JONATHAN PRUITT, UC Santa Barbara, Ecology, Evolution and Marine Biology (Guest Speaker)

KAI CHAN, UBC Vancouver Campus, Institute for Resources, Environment and Sustainability (Guest Speaker)

VICTORIA BERNAL, UC Irvine, Anthropology (Guest Speaker)

KARI DUNFIELD, University of Guelph, Applied Soil Ecology in the School of Environmental Studies (Guest Speaker)

PATRICIA CHOW FRASER, McMaster University, Biology (Guest Speaker)

AYESHA KHAN, McMaster University, School of Interdisciplinary Studies (Guest Speaker)

HEATHER POOLE, University of Ottawa, Faculty of Social Sciences (Guest Speaker)

Outreach



SCIENCE RENDEZVOUS AT THE TORONTO ZOO

U of T Scarborough continued its long-standing partnership with the Toronto Zoo and Let's Talk Science to hold Science Rendezvous, a national celebration of science, technology, engineering, art and math (STEAM) research and innovation at the Toronto Zoo. Faculty and students from U of T Scarborough, experts from the Toronto Zoo, and U of T Scarborough's Let's Talk Science students and volunteers engaged with visitors of all ages and made science come alive through demonstrations, hands-on activities and fun talks that took science out of the lab and onto the streets – or, in this case, to the zoo. This was a great opportunity for the whole family to explore their inner scientist – there was something for everyone!

Featured speakers at the 2019 Science Rendezvous event at the Toronto Zoo included Professor **Maydianne Andrade**, Professor **Marc Cadotte** and Professor **Tod Thiele**, all from the Department of Biological Sciences, as well as Professor **Julie Teichroeb** from the Department of Anthropology, and Kyla Greenham, Jaap Wensvoort and Kevin Kerr from the Toronto Zoo.

ATTENDANCE

~5,800

NUMBER OF EVENT VOLUNTEERS

75

VOLUNTEER HOURS SPENT PLANNING

1,400

SOCIAL MEDIA REACH

21,000+ IMPRESSIONS



LET'S TALK SCIENCE

Let's Talk Science at U of T Scarborough has been delivering hands-on activities to youth in Scarborough and throughout Ontario since 2004. With the support of U of T Scarborough's Office of the Vice-Principal Research and the Centre for Teaching and Learning, Let's Talk Science at U of T Scarborough has reached almost 74,000 youth in the past 15 years.

In 2018-19, 12,449 youth participated in activities organized by the U of T Scarborough branch, more than doubling the outreach achieved in 2017-18. And of the 55 branches across Canada, U of T Scarborough ranks seventh in terms of total outreach and first in the GTA.



UTSC Let's Talk Science has reached almost **74,000** youth in the past 15 years.



Of the 55 branches across Canada, UTSC ranks

7th in terms of total outreach and

1st in the GTA.



Research Funding

BY Research Faculty

Data source: University of Toronto Research Information System
Award Report, prorated, Grant Year **April 1, 2018 – March 31, 2019**.
Report generated on January 29, 2020. **This is not a comprehensive list.**

<u>FACULTY</u>	<u>DEPARTMENT</u>	<u>SPONSOR</u>	<u>PROGRAM</u>	<u>PROJECT TITLE</u>	<u>AWARDED</u>
Aggarwal, Pankaj	Management	SSHRC	Insight Grant	Tradeoffs and Product Flaws: Applying Social Norms to Anthropomorphized Products	\$15,227.00
Ahmad, Aisha	Political Science	Norwegian Univ of Life Sciences	Norwegian Research Council Subgrant	The Jihadist War Economies Project	\$29,230.00
Ambuehl, Sandro	Management	Alfred P. Sloan Foundation	Research Operating Grant	Using Behavioral Welfare Economics to Improve Financial Decision Making	\$212,740.00
		Connaught Fund	New Researcher Award	Incentives for complex transactions – Bridging Economics and Ethics	\$17,500.00
Anderson, Ashton Chandler Justin	Computer & Mathematical Sciences	Canada Foundation for Innovation	John R. Evans Leaders Fund	Computational Social Science Lab	\$34,545.45
			Infrastructure Operating Fund (IOF)	Computational Social Science Lab	\$2,235.30
		NSERC	Discovery Grant	Behavioural Computation: Analysis, Models, and Algorithms for Supporting Human Improvement on the Web	\$33,000.00
			DGECR Discovery Launch Supplement	Behavioural Computation: Analysis, Models, and Algorithms for Supporting Human Improvement on the Web	\$2,500.00
			Small Infrastructure Fund	Computational Social Science Lab	\$34,545.45
Andrade, Maydianne	Biological Sciences	MITACS	Globalink	Understanding invasiveness in brown widow spiders	\$6,000.00
		NSERC	Discovery Grant	Examining links between behaviour, plasticity and diversification under environmental heterogeneity using broadly distributed spiders	\$33,000.00
Archontitsis, Georgios	Physical & Environmental Sciences	Environment Canada	Great Lakes University Research Fund	Integrated Modelling to Assess Phosphorus Best Management Practices in Hamilton Harbour	\$51,428.57
			Great Lakes University Research Fund	Eutrophication Risk Assessment and Adaptive Management Implementation in the Hamilton Harbour AOC: Elucidating the Role of Internal Nutrient Recycling	\$67,999.20
			Great Lakes University Research Fund	Modelling nutrient exports and dynamics including internal nutrient loading in Lake Erie	\$50,000.00
			Great Lakes University Research Fund	Using the Soil Water Assessment Tool (SWAT) to Determine Best Management Practices in Wilton Creek and Hay Bay Watersheds (Bay of Quinte AOC)	\$36,000.00
		NSERC	Discovery Grant	A Bayesian Framework to Study the Effects of Hydrological Extremes under Present and Future Climate Conditions	\$58,000.00
		U.S. Department of State	Operating Contract	Great Lakes Water Quality Models Inventory	\$27,963.46

<u>FACULTY</u>	<u>DEPARTMENT</u>	<u>SPONSOR</u>	<u>PROGRAM</u>	<u>PROJECT TITLE</u>	<u>AWARDED</u>
Aretakis, Stefanos	Computer & Mathematical Sciences	Alfred P. Sloan Foundation	Research Fellowship	Mathematical Problems in General Relativity	\$17,898.12
		Connaught Fund	New Researcher Award	Mathematical Problems in General Relativity	\$5,000.00
		NSERC	Discovery Grant	Mathematical Problems in General Relativity	\$30,000.00
		Ministry of Research, Innovation and Science	Early Researcher Award	Mathematical Problems in General Relativity	\$918.80
Armstrong, Blair	Psychology	Canada Foundation for Innovation	John R. Evans Leaders Fund	CFI JELF -- Advancing Neural Network Accounts of Cross-linguistic Differences, Language Learning, and Ambiguity Resolution	\$42,857.15
			Infrastructure Operating Fund (IOF)	CFI JELF -- Advancing Neural Network Accounts of Cross-linguistic Differences, Language Learning, and Ambiguity Resolution	\$2,941.18
		NSERC	Discovery Grant	Toward a Universal Theory and Model of Word Comprehension	\$26,000.00
		Ministry of Research, Innovation and Science	Small Infrastructure Fund	CFI JELF -- Advancing Neural Network Accounts of Cross-linguistic Differences, Language Learning, and Ambiguity Resolution	\$42,857.15
Arruda Carvalho, Maithe	Psychology	Brain & Behavior Research	NARSAD Young Investigators Award	Circuit Maturation and Susceptibility to Depression	\$37,014.95
		Canadian Institutes of Health Research (CIHR)	Project Scheme Grant	Investigating the Maturation of Sensitive Circuits Underlying Early Life Stress	\$243,845.00
		Canada Foundation for Innovation	Infrastructure Operating Fund (IOF)	Maturation of sensitive circuits underlying early life stress	\$10,983.05
			John R. Evans Leaders Fund	Maturation of sensitive circuits underlying early life stress	\$60,000.00
		Hospital for Sick Children	New Investigator Award	Social Brain Development from Infancy to Adulthood: Implications for Autism	\$16,666.67
		Human Frontier Science Program	Career Development Grant	Investigating the circuit basis of adolescent impulsivity	\$33,379.21
		NSERC	Discovery Grant	MemoryNSERC DG – Maturation of Circuits Underlying Learning and Memory	\$33,000.00
			Research Tools & Instruments - Category 1	Circuit Basis of Decision Making Across the Lifespan	\$112,255.38
		Ministry of Research, Innovation & Science	Small Infrastructure Fund	Maturation of sensitive circuits underlying early life stress	\$60,000.00
Averbakh, Igor	Management	NSERC	Discovery Grant	Nonclassical Discrete Optimization Problems	\$31,000.00
Bagby, Michael	Psychology	Mental Health Research Canada	Studentship Grant	The Power of Resilience: Positive Psychotherapy for Youth at Clinical High-Risk (CHR) for psychosis	\$17,187.50
Bailey, Sarah	Physical & Environmental Sciences	NSERC	Discovery Grants (Individual, Team & Project)	Examining risk of, and management strategies for, ship biofouling as a vector of aquatic non-native species to Canada	\$27,500.00
Bamford, Sandra	Anthropology	Canadian Institutes of Health Research (CIHR)	Travel Award	Redefining Resilience: Urban Indigenous Family Preservation Models as Decolonial Resistance in Victoria BC – Erika Finestone	\$1,522.00

Research Funding

<u>FACULTY</u>	<u>DEPARTMENT</u>	<u>SPONSOR</u>	<u>PROGRAM</u>	<u>PROJECT TITLE</u>	<u>AWARDED</u>
Bender, Daniel Eric	Historical and Cultural Studies	SSHRC	Partnership Engage Grant	Catering Communities: Increasing Newcomers' Opportunities in Culinary Infrastructure	\$5,981.50
Birn, Anne-Emanuelle	Centre for Critical Development Studies	Canadian Institutes of Health Research (CIHR)	Open Operating Grant	Health diplomacy at a crossroads: Social justice-oriented south-south cooperation in a time of global change	\$8,333.33
Blouin, Katherine	Historical and Cultural Studies	SSHRC	Insight Development Grant	Co-organize workshops: 'Aspects of urbanism in ancient to medieval Egypt', Austrian Institute, Cairo, March 2019; 'Orientalism, the Classics and Egypt', Egypt Exploration Society (British Council), March 2019	\$880.86
Bolus-Reichert, Christine	English	Canadian Institutes of Health Research (CIHR)	SSHRC Banting Post-Doctoral Fellowship	Tom Ue – Banting Postdoc – Between Happiness and Misery: Bentham, Dickens, and Debt	\$35,000.00
Boonstra, Rudy	Biological Sciences	NSERC	Discovery Grant - Northern Research Supplement	The Role of Stress in Natural Populations	\$15,000.00
			Discovery Grant	The Role of Stress in Natural Populations	\$51,000.00
Borins, Sandford	Management	SSHRC	Insight Grant	Extending the Reach of a Methodology for Studying Narratives about Politics and Government	\$11,603.00
Brown, Hilary Kathryn	Anthropology/ Interdisciplinary Centre for Health & Society	Canadian Institutes of Health Research (CIHR)	Project Scheme Grant	Chronic Medical Conditions and Perinatal Mental Illness	\$76,500.00
		Connaught Fund	New Researcher Award	Maternal Diabetes and Perinatal Mental Illness: A Population-Based Cohort Study	\$17,500.00
		Women's College Hospital	Women's Xchange Project Funding	Pilot randomized controlled trial of an interconception intervention provided by public health nurses to improve reproductive and perinatal outcomes	\$6,474.69
		Canadian Institutes of Health Research (CIHR)	Operating Grant	Infants born to women with disabilities: Health and health care	\$8,333.00
		National Institutes of Health (U.S.)	Operating Grant – RO1	Pregnancy in Women with Disabilities: Using Novel Methods to Characterize Risk	\$204,553.86
Brown, Ian	Biological Sciences	Canada Foundation for Innovation	IOF – Leading Edge Fund	Centre for Neurobiology of Stress (CNS)	\$36,376.50
		NSERC	Discovery Grant	Heat shock proteins in the nervous system	\$45,000.00
Buchweitz, Ragnar-Olaf	Computer & Mathematical Sciences	NSERC	Discovery Grant	Applications of Homological Algebra in Algebra, Geometry, and Physics	\$26,552.21
Buckley, Michelle	Human Geography	SSHRC	Partnership Development Grant	Mapping the Livelihoods of Urbanization: Construction Migration and Household Economies in Uttar Pradesh	\$75,000.33
Burchell, Kenzie	Arts, Culture & Media	SSHRC	Insight Development Grant	Exploiting the limits of Media Power: ISIS Censorship, Surveillance and Spectacle	\$23,709.00
Cadotte, Marc	Biological Sciences	Connaught Fund	Global Challenge Award	Solving the global urban biological invasions conundrum	\$90,937.50
		MITACS	Globalink	Effects of Fragmentation on multiple facets of biodiversity	\$2,500.00
		NSERC	Discovery Grant	Biodiversity and the delivery of ecosystem services in novel landscapes	\$37,000.00
		Ministry of Research, Innovation & Science	Early Researcher Award	The role of species in maintaining ecosystem function in urban landscapes	\$20,595.97

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Cant, Jonathan	Psychology	NSERC	Discovery Grant	The neural substrates of object ensemble processing in the human brain	\$9,666.67
Chair, Biological Sciences	Biological Sciences	NSERC	Undergraduate Student Research Award (USRA)	NSERC Undergraduate Student Research Awards	\$30,937.50
Chair, Computer & Math Sciences	Computer & Mathematical Sciences	NSERC	Undergraduate Student Research Award (USRA)	NSERC Undergraduate Student Research Awards	\$13,875.00
Chair, Physical Sciences	Physical & Environmental Sciences	NSERC	Undergraduate Student Research Award (USRA)	NSERC Undergraduate Student Research Awards	\$22,500.00
Chair, Psychology	Psychology	NSERC	Undergraduate Student Research Award (USRA)	NSERC Undergraduate Student Research Awards	\$13,125.00
Chan, Leslie	Centre for Critical Development Studies	International Development Research	Science & Innovation – Information and Network	Building a Framework for Feminist Open Science	\$40,651.39
Chandra, Ambarish	Management	SSHRC	Insight Grant	A Comprehensive Account of Price Discrimination: New Evidence from the Airline Industry	\$9,950.00
Charise, Andrea	Anthropology/ Interdisciplinary Centre for Health & Society	Connaught Fund	New Researcher Award	Novel Remedies: Literature, Health, and the Creative Recovery of Humanities	\$5,000.00
		SSHRC	Insight Development Grant	Novel Remedies: Literature, Health, and the Creative Recovery of Humanities	\$15,842.50
Childress, Christopher Clayton	Sociology	SSHRC	Insight Development Grant	Diversity, the Booker Prize, and Long Term Literary Acclaim	\$5,657.00
				Drafting Change: The Visions and Revisions of Nelson Mandela	\$24,513.33
				University of Toronto Excellence Award – SSH	Diversity, the Booker Prize, and Long Term Literary Acclaim
Chun, Jennifer	Sociology	SSHRC	Insight Grant	Protesting Publics in South Korea	\$36,861.00
Cire, Andre Augusto	Management	NSERC	Discovery Grant	Optimization with Decision Diagrams: Theory and Applications	\$24,000.00
			Engage Grant	Data Analytics for Ore Blending Schedules	\$8,333.33
Cochrane, Christopher Brian	Political Science	SSHRC	Insight Grant	Ideology, Institutions, and the Evolution of Canadian Parliamentary Behaviour, 1867-2016	\$54,598.00
Connelly, Brian Samuel	Management	Ministry of Research, Innovation and Science	Early Researcher Award	Broadening the Horizons of Personality: The Scarborough Multi-Rater Personality Project (SMuRPP)	\$5,811.32
		SSHRC	Insight Grant	Lying, Boasting, Self-Exalting: Using Observer Reports of Personality to Identify and Remedy Applicant Faking	\$8,425.00
Cowan, Theresa (T.I.)	Arts, Culture & Media	Connaught Fund	New Researcher Award	Cross-Platform Cabaret Methods: Digital Infrastructures for Trans-Feminist and Queer Performance and Archive Practices	\$5,000.00
Dewar, Genevieve	Anthropology	SSHRC	Insight Grant	Human landscape use during MIS 3 and MIS 2 in southern Africa	\$63,044.00
Dhuey, Elizabeth Ann	Management	SSHRC	Partnerships Development Grant	Future Skills: Adapting Education and Training to Respond to the Changing World of Work due to Disruptive Technologies (“Industry 4.0”)	\$8,070.67

Research Funding

<u>FACULTY</u>	<u>DEPARTMENT</u>	<u>SPONSOR</u>	<u>PROGRAM</u>	<u>PROJECT TITLE</u>	<u>AWARDED</u>
Dittrich, Maria	Physical & Environmental Sciences	Environment Canada	Great Lakes University Research Fund	Linking harmful algal blooms and phosphorus reflux with phosphorus loading from agricultural erosion hotspots during high and low flow hydrological events in Bay of Quinte	\$26,224.52
				Internal nutrient loading in Lake of the Woods and contribution to harmful algal blooms and cyanobacteria	\$30,000.00
				Phosphorus loading from Napanee River, Wilton Creek and their catchments	\$45,000.00
		MITACS	Elevate (PDF)	Development of an integrated modelling framework for eutrophication risk assessment and adaptive management implementation	\$22,500.00
		NSERC	Discovery Grant	Organo-mineralization in microbial mats: linking field, laboratory and metagenomic studies	\$22,000.00
		Qatar National Research Fund	National Priorities Research Program (NPRP)	Geobiological processes in the sabkhas of Qatar: Evaluating the role of microbes for the formation of dolomite and other authigenic minerals in evaporitic environments	\$5,264.98
Donaldson, D. James	Physical & Environmental Sciences	NSERC	Discovery Grant	Atmospheric and Interfacial Reaction Dynamics	\$43,000.00
Drouin, Sebastien	Centre for French & Linguistics	SSHRC	Insight Grant	Correspondances de journalistes II: Circulation du livre et de l'information littéraire dans l'Europe des premières Lumières	\$37,797.00
Ekers, Mike	Human Geography	Connaught Fund	New Researcher Award	Financializing Forests in British Columbia: Land, Governance and the Ecological Fix Regimes and Resistance	\$5,000.00
		SSHRC	Insight Grant	Financiers in the Forests: On Fixes, Colonial Property	\$8,132.00
Enright, Wayne	Computer & Mathematical Sciences	NSERC	Discovery Grant	The development of reliable numerical software for the investigation of systems of differential equations	\$26,000.00
Erb, Suzanne	Psychology	NSERC	Discovery Grant	Impact of early developmental experience on cocaine-stress interactions in adulthood: An exploration of behavioural, physiological, and neural mechanisms	\$31,000.00
Evans, Michael	Computer & Mathematical Sciences	NSERC	Discovery Grant	Bayesian statistical inference and computation	\$30,000.00
				Bayesian inference and relative belief, theory and applications	\$30,000.00
Eyles, Nicholas	Physical & Environmental Sciences	NSERC	Discovery Grant	The Geology of Glaciated Sedimentary Basins	\$33,000.00
Farber, Steven	Human Geography	Metrolinx	Research Agreement	Planning for Transit Equity in the GTHA: Quantifying the Accessibility-Activity Participation Relationship for Low-Income Households	\$20,160.00
		Ministry of Research, Innovation and Science	Early Researcher Award	Accessibility and Participation: The Role of Transportation in Activity Making	\$11,492.42
		SSHRC	Partnership Engage Grant	Preparing Society for 21st Century Mobility: Measuring the Costs and Benefits of On-Demand Transit Services in Belleville, Ontario	\$2,082.83

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Fleet, David James	Computer & Mathematical Sciences	Canadian Institutes for Advanced Research	Learning in Machines and Brains Program	CIFAR Annual Research Support	\$20,475.00
		NSERC	Discovery Grant	Looking at People and Large-Scale Vision	\$73,000.00
Flynn, Alexandra	Human Geography	SSHRC	Insight Development Grant	Indigenous-municipal consultation in local planning processes	\$8,863.65
Ford, Brett Quaid	Psychology	Canada Foundation for Innovation	John R. Evans Leaders Fund	Affective Science & Health Laboratory: Integrated and Dynamic Assessment of Experience, Behavior, and Physiology	\$45,454.55
			Infrastructure Operating Fund (IOF)	Affective Science & Health Laboratory: Integrated and Dynamic Assessment of Experience, Behavior, and Physiology	\$3,000.00
		Connaught Fund	New Researcher Award	Can emotion regulation counteract the harmful effects of stress exposure? The role of reappraisal in protecting individuals' emotional and physiological outcomes	\$11,666.66
		Mind and Life Institute	Peace Grant	Can Emotional Acceptance Promote Political Action? Leveraging Contemplative Science to Promote Positive Social Action	\$3,934.20
		Ministry of Research, Innovation and Science	Small Infrastructure Fund	Affective Science & Health Laboratory: Integrated and Dynamic Assessment of Experience, Behavior, and Physiology	\$45,454.55
		SSHRC	Insight Grant	When is emotion regulation adaptive versus maladaptive? A multi-method examination	\$14,124.00
Franco, April	Management	SSHRC	Insight Grant	The Effects of Employee Mobility on Entrepreneurial Ventures, Employment Growth and Regional Prosperity	\$21,425.00
Frazer, Garth	Management	The London School of Economics	IGC Subgrant	Unpacking the Impact of Regional Integration in the East African Community	\$14,108.48
Friedlander, John	Computer & Mathematical Sciences	NSERC	Discovery Grant	Research in Number Theory	\$38,000.00
Fu, Diana Xuan	Political Science	Connaught Fund	New Researcher Award	Beyond Half the Sky: Explaining China's New Wave Feminist Movement	\$17,500.00
		SSHRC	Insight Development Grant	Thought Control and Gender Politics in Authoritarian China	\$19,348.33
Fulthorpe, Roberta	Physical & Environmental Sciences	Loblaw Companies Ltd.	Seeding Food Innovation Grant	Adjusting plant microbiomes for flavour and fragrance	\$23,250.00
		NSERC	Discovery Grant	Catabolic capabilities of endophytic bacteria	\$34,000.00
				Use of plant growth promoting bacteria in aquaponics operations	\$25,000.00
Gazzarrini, Sonia	Biological Sciences	NSERC	Discovery Grant	Environmental and hormonal control of seed development and germination	\$40,000.00
Gervers, Michael	Historical and Cultural Studies	Arcadia Foundation	Research Grants	Contemporary rock-hewn church excavation in Ethiopia	\$63,590.34
		SSHRC	Insight Grant	Text as Image, Image as Text: Charter Integrity and Topic Modelling	\$38,924.00
				University of Toronto Excellence Award – SSH	Text as Image, Image as Text: Charter Integrity and Topic Modelling
Goghari, Vina	Psychology	NSERC	Discovery Grant	Dissociating Proactive and Reactive Control Processes	\$29,000.00

Research Funding

<u>FACULTY</u>	<u>DEPARTMENT</u>	<u>SPONSOR</u>	<u>PROGRAM</u>	<u>PROJECT TITLE</u>	<u>AWARDED</u>
Goldman, Marlene Beth	English	Canadian National Institute for the Blind	Operating Grant	Fostering Awareness of Age-Related Macular Degeneration and Charles Bonnet Syndrome	\$8,283.33
		SSHRC	Insight Grant	Forgotten: Cultural Discourses of Age-Related Dementia and Alzheimer's Disease	\$18,521.00
			Partnership Engage Grant	Combining Simulation with Performative Practices: Fostering Empathy for Older People through the Use of Technology?	\$20,833.33
Goldstein, Michael	Computer & Mathematical Sciences	NSERC	Discovery Grant	Integrable Systems Of PDE With Quasi-Periodic Initial Data	\$20,000.00
		Simons Foundation	Senior Fellowship	Anderson Localization With Applications	\$121,588.00
Gough, William	Physical & Environmental Sciences	Aboriginal Affairs & Northern Development Canada	Arctic Environmental Strategy Contaminants Program	The Canadian winter roads: current conditions, adaptive opportunities in a changing climate	\$15,333.33
			Northern Scientific Training Program	Inuit Knowledge and Northern Communities	\$4,000.00
		Carleton University	SSHRC IDG Subgrant	Learning from Inuit Knowledge: Nunavik and Nunavut Perspectives on the cumulative impacts of environmental change in eastern Hudson Bay	\$15,326.09
		NSERC	Discovery Grant	Climate Change in the Eastern Arctic	\$32,400.00
		SSHRC	Insight Grant	Vulnerability and Resilience to Climate Change in the Canada Arctic (VaRCCA)	\$45,800.00
Grewal, Anup	Historical and Cultural Studies	SSHRC	Connection Grant	Understanding the Tibetan Cultural Renaissance inside the People's Republic of China	\$12,199.50
Guzzo, Christina	Biological Sciences	Canada Foundation for Innovation	John R. Evans Leaders Fund	A Viral Pathogenesis Laboratory For The Study Of HIV-1 Disease And Host Immunity	\$20,000.00
		Connaught Fund	New Researcher Award	Human immune proteins can be incorporated into the external HIV virus coat and alter virus infection	\$5,000.00
		Ministry of Research, Innovation and Science	Small Infrastructure Fund	A Viral Pathogenesis Laboratory For The Study Of HIV-1 Disease And Host Immunity	\$20,000.00
Haley, David	Psychology	MITACS	Elevate (PDF)	Exploratory Study on the Prevalence of Alexithymia in a Child Welfare Population	\$24,000.00
Han, Ju Hui	Human Geography	Max Planck Institute for the Study of Religious and Ethnic Diversity	Operating Grant	Urban aspirations in Seoul: Religion and megacities in comparative studies	\$5,322.92
Hansen, Samantha	Management	SSHRC	Insight Grant	The critical role of time on perceived employee and employer obligations: A new direction in the study of psychological contracts	\$19,834.00
Harrison, Rene	Biological Sciences	Canadian Space Agency	Operating Grant	Using simulated microgravity to understand bone loss & develop countermeasures in space	\$26,285.71
		MITACS	Accelerate Ontario	The effect of phyto-cannabinoids on osteoclast differentiation and function	\$19,090.91
		NSERC	Discovery Grant	Microtubule organizing centres in osteoclasts	\$56,288.00
Hasenkampf, Clare	Biological Sciences	NSERC	University of Toronto Excellence Award – NSE	UTEA The Role of Hop2 in Determining the Fidelity of Homologous Chromosome Pairing	\$4,875.00

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Haslhofer, Robert	Computer & Mathematical Sciences	Alfred P. Sloan Foundation	Research Fellowship	Mean curvature flow and Ricci flow	\$23,490.74
		NSERC	Discovery Grant	Mean curvature flow and Ricci flow	\$27,000.00
Hirst, Graeme	Computer & Mathematical Sciences	NSERC	Discovery Grant	Applied computational models of discourse, argument, and text	\$54,000.00
		University of Gothenburg	Riksbankens Jubileumsfond Subgrant	Linguistic and extra-linguistic parameters for early detection of cognitive impairment	\$12,655.75
			Swedish Research Council Subgrant	The Advantage of Country Comparisons – Towards a New Method for Estimating Language Effects in Cross-Cultural Surveys	\$14,628.21
Hoffmann, Matthew	Political Science	SSHRC	Insight Grant	Transformative policy pathways toward decarbonization	\$76,700.00
Hsiung, Ping-Chun	Sociology	SSHRC	Insight Grant	The Politics of Investigative Research during China's Great Leap Forward (1958-62)	\$33,231.00
Hubner, Karolina	Philosophy	SSHRC	Insight Grant	Spinoza on Being	\$24,790.00
Hunter, Mark	Human Geography	SSHRC	Insight Grant	'Parasites': A Social Geography of Heroin, Estrangement, and Gendered Sociality in South Africa	\$22,198.00
Hussain, Waheed	Philosophy	SSHRC	Insight Grant	Embracing the Invisible Hand: Corporations, Market Governance and Human Freedom	\$8,827.00
Hutcherson, Cendri Anne Claire	Psychology	California Institute of Technology	National Institutes of Health Subgrant	Social inference and prosocial decisions	\$76,510.04
		Canada Foundation for Innovation	John R. Evans Leaders Fund	Canada Research Chair in Decision Neuroscience	\$30,000.00
			Infrastructure Operating Fund (IOF)	Canada Research Chair in Decision Neuroscience	\$1,967.21
		NSERC	Discovery Grant	Testing the implications of a dynamic, neurally-informed computational model of valuation, decision making, and self-control	\$28,000.00
		Ministry of Research, Innovation and Science	Small Infrastructure Fund	Canada Research Chair in Decision Neuroscience	\$30,000.00
		SSHRC	Insight Grant	Why are people generous?: New model-based approaches to long-standing questions	\$44,568.00
Inbar, Yoel	Psychology	SSHRC	Insight Grant	Moralized Attitudes Towards Genetically Engineered Food	\$21,226.00
			Insight Development Grant	Moral language across the political spectrum	\$18,166.67
Inzlicht, Michael	Psychology	NSERC	Discovery Grant	The effort paradox: Exploring effort's costs and benefits	\$33,384.00
		SSHRC	Insight Grant	What is ego depletion? Testing the process model of self-control failure	\$58,334.00
			Insight Development Grant	Predicting population-level self-control from Facebook: Lessons about self-control from big data	\$4,575.00
Isaac, Marney Elizabeth	Physical & Environmental Sciences	Canada Foundation for Innovation	Infrastructure Operating Fund (IOF)	Carbon and nitrogen analysis in agroecology	\$2,045.26

Research Funding

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Isaac, Marney Elizabeth	Physical & Environmental Sciences	NSERC	Discovery Grant	Biophysical interactions in agricultural environments across edaphic gradients	\$22,000.00
		University of Guelph	Subgrant	Riparian buffer plantings: An agroforestry land-use for greenhouse gas mitigation including multiple benefits to Canadian agricultural systems	\$43,938.00
Isakson, Ryan	Centre for Critical Development Studies	SSHRC	Insight Development Grant	Weather Derivatives, Farmer Vulnerability, and the Financialization of Agricultural Risk Management in Guatemala	\$33,757.67
Ito Lee, Rutsuko	Psychology	Canadian Institutes of Health Research (CIHR)	Project Scheme Grant	Hippocampal contributions to approach-avoidance conflict decision-making: a cross-species investigation into the underlying cognitive processes and wider neural circuitry	\$148,410.00
		NSERC	Discovery Grant	Delineating cortico-limbic-striatal circuits in reward and punishment: segregation and integration	\$31,000.00
Izmaylov, Artur	Physical & Environmental Sciences	MITACS	Accelerate Ontario	Multiscale In-Silico Screening of OLEDs: Simulating the Formation of Organic Glasses and Computation of Optoelectronic Properties	\$30,000.00
		NSERC	Engage Grant	Adiabatic Quantum Computing of Molecular Electronic Structure on the 2000Q D-Wave Quantum Computer	\$8,333.33
			Discovery Grant	Quantum dynamical methods for modelling photoinduced processes in molecules	\$48,000.00
			Engage Grant	Quantum computing algorithms for accurate electronic structure calculations	\$12,500.00
		OTI Lumionics Inc.	Research Contract	Quantum computing algorithms for accurate electronic structure calculations	\$12,500.00
		Ministry of Research, Innovation and Science	Early Researcher Award	Development of new computational methods for modeling chemical reactions on metallic surfaces	\$39,944.25
Jeffrey, Lisa	Computer & Mathematical Sciences	NSERC	Discovery Grant	Symplectic Geometry	\$27,000.00
Johnson, F. Ryan	Computer & Mathematical Sciences	Hewlett-Packard Company	HP Labs Innovation Research Program	Collaboration Agreement w / HP Labs Systems Research Center	\$21,904.00
Kang, Yoon Jung	Centre for French & Linguistics	Academy of Korean Studies	Korean Studies Grant	Acquisition of Korean vowels and English learners of Korean	\$584.71
		SSHRC	Insight Grant	Bilingualism, perceptual drift, and regularization of loanwords	\$31,053.00
			University of Toronto Excellence Award – SSH	Interaction between duration, speech rate, and speaker age, and implications for sound change	\$6,000.00
Kerman, Kagan	Physical & Environmental Sciences	Canada Foundation for Innovation	Infrastructure Operating Fund (IOF)	Tissue Culture Facility of Bioanalytical Sensors	\$4,677.73
		MITACS	Accelerate Ontario	Discovery of Endocannabinoid modulating compounds for Alzheimer's disease therapeutics development	\$26,250.00
		NSERC	Discovery Grant	Bioelectrochemistry of Surfaces and Interfaces	\$45,000.00

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Kerman, Kagan	Physical & Environmental Sciences	Ontario Centres of Excellence	Voucher for Innovation and Production	Development of a Cannabis cultivars/chemovars database for chemical and biological profiling	\$9,375.00
Khapko, Mariana	Management	Connaught Fund	New Researcher Award	Markets of Tomorrow: Blockchain Trade Settlement and Liquidity	\$5,000.00
		SSHRC	Insight Development Grant	Speed and Market Structure in the Digital Age	\$13,092.50
Kilroy-Marac, Kathleen Patricia	Anthropology	SSHRC	Insight Development Grant	Dwelling in Possibility: Tiny Houses as conduits for material, social, and ethical transformation	\$37,468.33
Kingston, Paul	Political Science	MITACS	Globalink	Bread, Freedom and National Dignity? a Political Economy of Youth	\$1,000.00
		University of British Columbia	SSHRC PG Subgrant	Participedia: a global Partnership to Create and Mobilize Knowledge about Democratic Innovations	\$7,500.00
Klenk, Nicole	Physical & Environmental Sciences	SSHRC	Insight Development Grant	Transdisciplinary Science Policy Interfaces in Adaptation Decision Making	\$22,267.16
			Connections Grant	Regenerating Rural Textile Economies: the role of social networks and social capital in sheep farming	\$3,577.50
Kohn, Margaret	Political Science	SSHRC	Insight Grant	Spaces of Civil Disobedience: From Sanctuary to Occupy	\$2,820.00
Koudas, Nick	Computer & Mathematical Sciences	MITACS	Accelerate Ontario	Recommendation System for Retail Shopping	\$30,000.00
		NSERC	Discovery Grant	Efficient query processing and optimization for big data workloads	\$60,000.00
Kraatz, Heinz-Bernhard	Physical & Environmental Sciences	NSERC	Discovery Grant	Exploring the chemistry of ferrocene bioconjugates	\$75,000.00
			Engage Grant	Synthesis of Modified Nucleotide Triphosphates for Enzymatic DNA Synthesis	\$2,777.78
		Queen's University	Infrastructure Operating Fund (IOF) Subgrant	A Molecular Approach to Surface Functionalization: From Automotive to Biomedical Applications	\$9,221.15
Kronzucker, Herbert	Biological Sciences	NSERC	Discovery Grant	Physiology and toxicology of ion fluxes in plant roots anthropological history of Cold War Ecuador	\$59,000.00
Krupa, Chris	Anthropology	SSHRC	Insight Development Grant	Accounting for violence in the island of peace: An anthropological history of Cold War Ecuador	\$691.54
Lambek, Michael	Anthropology	MITACS	Globalink	Female piety and sacred space in Israel	\$2,666.67
Landolt, Patricia	Sociology	SSHRC	Partnership Development Grant	Precarious Noncitizenship through the Life Course	\$13,544.51
		York University	SSHRC Insight Grant Subgrant	New and old fault lines in the Canadian labour market: the temporal and institutional dynamics of citizenship, legal status and work	\$6,153.85
Latulippe, Nicole Monique	Human Geography	SSHRC	Connections Grant	Indigenous Placemaking: Connecting Aotearoa New Zealand and Toronto	\$1,919.23
Lee, Andy CH	Psychology	NSERC	Discovery Grant	Exploring the content of human medial temporal lobe representations and their contributions to cognition	\$40,000.00

Research Funding

<u>FACULTY</u>	<u>DEPARTMENT</u>	<u>SPONSOR</u>	<u>PROGRAM</u>	<u>PROJECT TITLE</u>	<u>AWARDED</u>
Lovejoy, Nathan Richard	Biological Sciences	Canada Foundation for Innovation	Infrastructure Operating Fund (IOF)	Establishment of a Laboratory for Research on the Evolutionary Genetics of Animal Behaviour	\$5,960.53
		Coypu Foundation	Operating Grant	Aquatic Biodiversity Survey of the Southern Colombian Andes	\$16,474.66
		NSERC	Discovery Grant	Phylogenetics, biogeography, and evolution of fishes	\$44,000.00
Lowman, Julian	Physical & Environmental Sciences	NSERC	Discovery Grant	The evolution of the interior of the Earth and solid planets	\$30,000.00
MacIvor, James Scott	Biological Sciences	MITACS	Accelerate Ontario	Estimating the benefit of green infrastructure to urban ecosystems: A synthesis and case-study	\$15,000.00
		NSERC	Discovery Grant	Bee diversity and pollination services in dynamic heterogeneous landscapes	\$33,000.00
			DGECR Discovery Launch Supplement	Bee diversity and pollination services in dynamic heterogeneous landscapes	\$2,500.00
Maglio Iii, Sam James	Management	SSHRC	Insight Development Grant	The Strength and Resilience of Intuitive Attitudes	\$4,963.33
Mandrak, Nicholas	Biological Sciences	Canada Foundation for Innovation	Infrastructure Operating Fund (IOF)	Biodiversity and Conservation of Freshwater Fishes Laboratory	\$4,800.00
		Fisheries & Oceans	Operating Grant	Research in Support of Science advice on Species at Risk, Asian Carp, and Aquatic Invasive Species Programs	\$255,300.00
			Partnership Fund	Canadian Freshwater Species at Risk Research Network	\$47,203.62
		MITACS	Globalink	MITACS Globalink – Rowshyra Castaneda in South Africa	\$3,000.00
		McGill University	Strategic Grants (individual & Group Operating) Subgrant	Assessing biological invasion risk under climate change scenarios in the Great Lakes Basin	\$84,322.01
		NSERC	Discovery Grant	Biodiversity, biogeography, and conservation of freshwater fishes	\$27,000.00
		University of Guelph	NSERC Collaborative Project Subgrant	CREATE “Multiple Stressors and Cumulative Effects in the Great Lakes” 432269-2013	\$14,293.68
Mason, Andrew	Biological Sciences	NSERC	Discovery Grant	Complex sensory signals: function and mechanism	\$29,000.00
Maurice, Alice	English	SSHRC	Insight Grant	Making Faces: Makeup, Identity, and the Changing Face of American Cinema	\$17,633.00
McCarthy, Julie	Management	SSHRC	Insight Grant	Personnel Selection Through the Lens of Job Applicants: Leveraging Test Reactions	\$13,368.50
McElheran, Kristina	Management	SSHRC	Insight Grant	Data and data-driven decision making in the digital age: economic, organizational, and individual implications	\$52,941.00
			Insight Development Grant	Entrepreneurial Firms in the Digital Age	\$34,530.00

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
McGowan, Patrick	Biological Sciences	NSERC	Discovery Grant	Prenatal predator stress and brain function	\$15,500.00
		Ministry of Research, Innovation and Science	Early Researcher Award	The role of stress in the biology of gene-environment interactions	\$28,135.35
		U.S. Dept of Defense	Gulf War Illness Research Fund – Investigator Initiated	Epigenetic mediation of endocrine and immune response in an animal model of Gulf War illness	\$43,264.75
Medina Quispe, Pamela Milagros	Management	Connaught Fund	New Researcher Award	Exploring Barriers of Small and Medium-sized Enterprises (SMEs) to International Market Access through E-commerce	\$14,940.00
Menou, Kristen	Physical & Environmental Sciences	NSERC	Discovery Grant	Atmospheres and Climates of Exoplanets	\$45,000.00
Mitchell, Carl	Physical & Environmental Sciences	City of Toronto	Operating Contract	Hydrological and Water Quality Benefits of a Low Impact Design Construction for Highland Creek at Military Trail near Highcastle Road	\$16,053.64
		Environment Canada	Pollution Program	Passive mercury sampler development and implementation	\$84,300.47
		NSERC	Discovery Grant	Hydrobiogeochemistry of contaminant transformation and transport	\$30,000.00
			Strategic Grants (individual & Group Operating)	Identifying and evaluating the effectiveness of best management practices to mitigate mercury contamination in managed forests	\$96,048.75
Mollett, Sharlene	Human Geography	SSHRC	Insight Development Grant	Gender and the Making of Residential Tourism Space in Panama	\$4,595.00
Molloy, Michael	Computer & Mathematical Sciences	NSERC	Discovery Grant	Probabilistic Graph Theory and Random Constraint Satisfaction Problems	\$62,000.00
Molnar, Peter Kalman	Biological Sciences	Aboriginal Affairs & Northern Development Canada	Northern Scientific Training Program	Polar bear persistence: just how low can the ice go?	\$2,000.00
		Canada Foundation for Innovation	Infrastructure Operating Fund (IOF)	Laboratory of Quantitative Global Change Ecology	\$6,315.79
			John R. Evans Leaders Fund	Laboratory of Quantitative Global Change Ecology	\$15,804.88
		Government of Yukon	Yukon Geological Survey	Predicting the effects of climate change on winter ticks (<i>Dermacentor albipictus</i>) and their hosts in Yukon, Canada	\$21,700.00
		NCE: ArcticNet	Operating Grant	Monitoring and managing muskox health for food security and ecosystem and socio-economic resilience: integrating traditional, local, and scientific knowledge	\$3,783.50
		NSERC	Discovery Grant	Bioenergetic approaches to understanding and forecasting ecological and epidemiological impacts of climate change	\$33,000.00
		Ministry of Research, Innovation and Science	Small Infrastructure Fund	Laboratory of Quantitative Global Change Ecology	\$15,804.88
		Wildlife Conservation Society	Fellowship Award	Understanding host-parasite interactions in a changing climate: Determining the current extent and future impact of the winter tick on local Yukon species	\$5,998.03

Research Funding

<u>FACULTY</u>	<u>DEPARTMENT</u>	<u>SPONSOR</u>	<u>PROGRAM</u>	<u>PROJECT TITLE</u>	<u>AWARDED</u>
Monahan, Philip Joseph	Centre for French & Linguistics	NSERC	Discovery Grant	Predicting Speech: Cortical Oscillations and Perceptual Dynamics	\$23,000.00
Narayanareddy, Rajyashree	Human Geography	SSHRC	Insight Grant	Fixing Unruly Flows: Infrastructures of Wastewater in Bangalore, India	\$8,403.00
Nash, Joanne	Biological Sciences	NSERC	Discovery Grant	Understanding the Molecular Mechanisms Underlying Motor Control	\$18,000.00
		The Michael J. Fox Foundation	Operating Grant	Further Validation of SIRT3 as a disease modifying agent in Parkinson's disease	\$15,951.69
Nefsky, A. Julia	Philosophy	SSHRC	Insight Grant	Individual Morality and Collective Impact	\$11,831.50
Nestor, Adrian	Psychology	NSERC	Discovery Grant	A neurocomputational investigation of human face processing	\$31,000.00
Nieborg, David	Arts, Culture & Media	Connaught Fund	New Researcher Award	App Studies: Exploring the Political Economy of Mobile Media Platforms	\$5,000.00
		SSHRC	Partnership Engage Grant	Leveraging SuperData's super data: Exploring content diversity in the app economy	\$22,594.00
			Connection Grant	The Platformization of Cultural Production	\$18,305.54
Niemeier, Matthias	Psychology	NSERC	Discovery Grant	Neural and cognitive mechanisms of predictive coding and their interactions for perception and action	\$28,000.00
Pekhimenko, Gennady	Computer & Mathematical Sciences	Canada Foundation for Innovation	Infrastructure Operating Fund (IOF)	Heterogeneous Systems Laboratory	\$5,100.00
			John R. Evans Leaders Fund	Heterogeneous Systems Laboratory	\$46,750.00
		Connaught Fund	New Researcher Award	Exploiting Hardware Heterogeneity for Efficient Execution of Emerging Applications	\$5,000.00
		Huawei Technologies Canada Co., Ltd	Collaboration Agreement	Software/Hardware Optimizations and Compiler Support for Heterogeneous Systems	\$28,724.36
				Efficient Distributed DNN Training	\$33,257.78
				Compiler Infrastructure for Optimizing DNN	\$2,009.03
		IBM Canada Ltd.	CAS Faculty Award	IBM-CAS: Efficient Memory Footprint Reduction for Java Performance	\$25,000.00
		NSERC	Discovery Accelerator Supplements	Exploiting Hardware Heterogeneity for Efficient Execution of Emerging Applications	\$40,000.00
		NSERC	Discovery Grant	Exploiting Hardware Heterogeneity for Efficient Execution of Emerging Applications	\$28,000.00
		Ministry of Research, Innovation and Science	Small Infrastructure Fund	Heterogeneous Systems Laboratory	\$46,750.00
Pilcher, Jeffrey	Historical and Cultural Studies	SSHRC	Insight Grant	Tasting the Global City: Multicultural Histories of Toronto's Cuisines	\$62,119.00
Rein, Hanno	Physical & Environmental Sciences	NSERC	Discovery Grant	Formation of Multi-Planetary Systems in the Kepler Era	\$24,000.00
Renckens, Stefan	Political Science	Connaught Fund	New Researcher Award	Transnational Private Sustainability Governance as Interest Community	\$5,000.00

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Richards, Blake	Biological Sciences	Canada Foundation for Innovation	Infrastructure Operating Fund (IOF)	Towards an integrated picture of sensory learning in neural circuits	\$9,642.85
		Canadian Open Neuroscience Platform	Postdoctoral Scholarship	A variational autoencoder technique for analyzing calcium imaging data – Luke Prince	\$7,031.25
		Connaught Fund	New Researcher Award	Testing the benefits of forgetting: An interdisciplinary investigation on adaptive versus maladaptive forgetting	\$4,665.00
		Human Frontier Science Program	Young Investigators Grant	An integrated multi-level investigation of neural codes in sensory processing	\$72,574.32
		NSERC	Discovery Grant	Uncovering the neurobiology of combined supervised and unsupervised learning	\$29,000.00
		Ministry of Research, Innovation & Science	Early Researcher Award	Deep learning in the brain	\$35,820.40
Riggs, Charles	Biological Sciences	NSERC	Discovery Grant	Structural and Functional Studies of Nuclear Organization, Chromatin and Chromosome Behaviour during nuclear division	\$30,000.00
Roy, Daniel	Computer & Mathematical Sciences	Amazon Develop Center Germany GmbH	Amazon Postdoc	Amazon Postdoc (Agreement # 2015-1290)	\$10,808.83
		MITACS	Accelerate Ontario	Generalization in Deep Learning MITACS Accelerate Award	\$24,000.00
		NSERC	Discovery Grant	NSERC Individual Discovery Grant	\$29,000.00
		Ministry of Research, Innovation and Science	Early Researcher Award	Next Generation Probabilistic Programming for Data Science	\$34,285.72
		The Royal Society	Newton International Fellowship	Newton Fellowship Alumni Fund	\$1,787.29
		New Frontiers in Research Fund	Exploration	New foundations for Bayesian statistics using mathematical logic and nonstandard analysis	\$10,416.67
Ruocco, Anthony Charles	Psychology	Canadian Institutes of Health Research (CIHR)	New Investigator Award	Isolating neurocognitive intermediate phenotypes in borderline personality disorder	\$15,000.00
			CGS Doctoral Award	Katherine Gardhouse – Doctoral award – Effects of Dietary Intervention on Inflammation and the Gut-Microbiome in Major Depressive Disorder	\$24,705.89
			CGS Doctoral Award	Dean Carcone – CIHR CGS Doctoral award – Alterations in Neural Activity Underlying Memory Disturbance in Major Depression, Bipolar Disorder and Schizophrenia: A Transdiagnostic, Cross-Cutting Symptom Approach	\$35,000.00
		Ministry of Research, Innovation & Science	Early Researcher Award	Neural systems dysfunctions underlying impulse control in borderline personality disorder	\$31,111.12
Saljoughi, Sara	English	SSHRC	Insight Grant	Burning Visions: The Counter-Cinema of the Iranian New Wave	\$15,011.00
Schertzer, Robert Stephen	Political Science	SSHRC	Insight Development Grant	Beyond Counting: describing and explaining ethno-national representation in political institutions across the globe	\$4,515.00
Schillaci, Michael	Anthropology	SSHRC	Insight Grant	A Study of the Biological Affiliations of the Sopris and Apishapa Phase Cultures of the American Southwest	\$18,785.00

Research Funding

<u>FACULTY</u>	<u>DEPARTMENT</u>	<u>SPONSOR</u>	<u>PROGRAM</u>	<u>PROJECT TITLE</u>	<u>AWARDED</u>
Schmuckler, Mark	Psychology	NSERC	Discovery Grant	Multisensory integration in the development of mobility / Pitch organization in music cognition	\$24,000.00
Schroeder, Bianca	Computer & Mathematical Sciences	Alfred P. Sloan Foundation	Research Fellowship	Designing and operating reliable and energy-efficient data centers	\$5,062.13
		NSERC	Discovery Grant	Reliable and energy-efficient data centers	\$36,000.00
		Ministry of Research, Innovation and Science	Early Researcher Award	Reliable and energy-efficient next-generation data centers	\$67,859.55
Seager, William Edward	Philosophy	Canadian Journal of Philosophy	Research Stipend	Radical Theories of Consciousness	\$1,250.00
Segal, Zindel	Psychology	National Institutes of Health (U.S.)	Operating Grant – RO1	Reducing residual depressive symptoms with web-based Mindful Mood Balance	\$290,198.21
Silcox, Mary Teresa	Anthropology	NSERC	Discovery Grant	Understanding the evolution of the earliest primates	\$28,000.00
Silver, Daniel	Sociology	SSHRC	Insight Grant	Canons, classics, and disciplinary identity in sociology: evidence from Canada, France, and Germany	\$13,643.00
		Western University	SSHRC IDG Subgrant	Place and Politics: Neighbourhood Effects and Political Behaviour in Canadian Cities	\$4,728.31
Silver, Michelle	Sociology	SSHRC	Insight Development Grant	Aging, Embodiment, and Sports: Canadian elite athletes navigating retirement	\$19,160.00
Simpson, Andre	Physical & Environmental Sciences	Ministry of the Environment	Research Grants	Understanding microcystin levels in Ontario	\$19,405.90
		NSERC	Strategic Grants (individual & Group Operating)	A Digital Microfluidic-Microcoil NMR discovery platform to elucidate, monitor and understand cumulative environmental stress	\$188,605.77
		NSERC	Discovery Grant	Fundamental Development of In-vivo NMR Technology to Understand Environmental Stress	\$68,000.00
Simpson, Myrna	Physical & Environmental Sciences	Ministry of the Environment	Research Grants	Developing Nuclear Magnetic Resonance and Mass Spectrometric Techniques for Great Lakes Exposure and Effects Assessments	\$18,128.30
		MITACS	Accelerate Ontario	Integrating mass spectrometry and computational chemistry for suspect and non-targeted screening of industrial effluents	\$14,000.00
		NSERC	Discovery Grant	Molecular Biogeochemistry of Soil Organic Matter with Environmental Change	\$50,000.00
		Nuclear Waste Management Organization	Collaborative Research and Development Nuclear Waste Management Organization Contract	Bioavailability and Molecular Structure of Organic Carbon in Bentonite	\$54,390.25
		University of Guelph	NSERC Strategic Program Subgrant	Understanding the Mechanisms for Soil Ecosystem Services from 'Perennialized' Annual Cropping Systems	\$19,736.58
Sorensen, Andre	Human Geography	SSHRC	Insight Grant	Urbanization, Planning and Developmental States in Comparative Historical Perspective	\$5,222.50

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Stanbridge, Alan	Arts, Culture & Media	SSHRC	International conference/ workshop	Swingin' in the Ol' Corral: Jazz meets Country Music – Presentation at Conference 'Beyond Genre: Jazz as Popular Music', Apr 19-21, 2018, Cleveland OH	\$717.78
Stark, Andrew	Management	SSHRC	Insight Grant	Political Capital in America	\$7,860.00
Sullan, Ruby May	Physical & Environmental Sciences	Canada Foundation for Innovation	Infrastructure Operating Fund (IOF)	Integrated Atomic Force Microscopy (AFM)-Optical Microscopy Facility for the Nanoscale Study of Microbial Biofilms	\$117,176.40
			John R. Evans Leaders Fund	Integrated Atomic Force Microscopy (AFM)-Optical Microscopy Facility for the Nanoscale Study of Microbial Biofilms	\$11,717.60
		Connaught Fund	New Researcher Award	Tackling Microbial Biofilms one molecule and one cell at a time: dissecting the forces that keep biofilms together	\$17,500.00
		NSERC	Discovery Grant	Molecular Forces in Microbial Biofilms	\$27,000.00
			Research Tools & Instruments – Category 1	Dynamic Light Scattering Instrument for Biological Chemistry	\$99,924.00
		Ministry of Research, Innovation and Science	Small Infrastructure Fund	Integrated Atomic Force Microscopy (AFM)-Optical Microscopy Facility for the Nanoscale Study of Microbial Biofilms	\$117,176.40
Sun, Qiang	Computer & Mathematical Sciences	Connaught Fund	New Researcher Award	Nonconvex Statistical Optimization for Big Data	\$5,000.00
		MITACS	Accelerate Ontario	Deloitte IP Factory: dTRAX Contract Management	\$30,000.00
		NSERC	Discovery Grant	Modern Statistical Optimization, Robustification and Inference with Applications to Big Data Analytics	\$23,000.00
		NSERC	DGECR Discovery Launch Supplement	Modern Statistical Optimization, Robustification and Inference with Applications to Big Data Analytics	\$2,500.00
		Virginia Commonwealth University	National Institutes of Health Subgrant	Collaborative research: Genome-wide association analysis	\$23,100.00
Tanner, Julian	Sociology	SSHRC	Insight Subgrant	Youth and Guns in Toronto	\$8,408.00
Teichroeb, Julie	Anthropology	NSERC	Discovery Grant	Understanding the Drivers of Individual and Group-Level Movements in Gregarious Species	\$28,000.00
Terebiznik, Mauricio	Biological Sciences	MITACS	Accelerate Ontario	Development of nanobodies against Salmonella enterica and Campylobacter jejuni	\$48,000.00
				Definition of attributes of a TB vaccine critical to uptake, processing and presentation	\$37,500.00
		NSERC	Discovery Grant	Phagocytosis filamentous targets	\$58,000.00
				Phagocytosis filamentous targets	\$40,000.00
			Research Tools & Instruments – Category 1	Spinning disk confocal microscope for live-cell imaging of pathogens- host cell interactions and biofilm development	\$11,538.39
		Ontario Centres of Excellence	Talent Edge Postdoctoral fellowship	Bioinformatics approach for synthetic single domain antibody design	\$55,200.00
		SOSCIIP Consortium	Talent Edge Postdoctoral fellowship	Bioinformatics approach for synthetic single domain antibody design	\$20,000.00

Research Funding

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Thiele, Tod	Biological Sciences	Canada Foundation for Innovation	Infrastructure Operating Fund (IOF)	Elucidating the structure and function of zebrafish sensorimotor circuits using optogenetic and behavioural approaches	\$24,800.33
			John R. Evans Leaders Fund	Elucidating the structure and function of zebrafish sensorimotor circuits using optogenetic and behavioural approaches	\$35,062.70
		Connaught Fund	New Researcher Award	Validation of a novel screening platform for the discovery of neuroactive compounds	\$17,500.00
		Human Frontier Science Program	Young Investigators Grant	Visual circuit adaptations to natural environments and behaviors in zebrafish and cichlids	\$156,201.31
		NSERC	Discovery Grant	Dissecting the structure and function of vertebrate sensorimotor neural circuits using larval zebrafish	\$36,000.00
		Ministry of Research, Innovation and Science	Small Infrastructure Fund	Elucidating the structure and function of zebrafish sensorimotor circuits using optogenetic and behavioural approaches	\$35,062.70
Tiozzo, Giulio	Computer & Mathematical Sciences	Alfred P. Sloan Foundation	Research Fellowship	Entropy of complex dynamical systems	\$23,490.74
		Connaught Fund	New Researcher Award	Ergodic theory of low-dimensional dynamical systems	\$5,000.00
		NSERC	Discovery Grant	Ergodic theory of low-dimensional dynamical systems	\$25,000.00
Treanor, Bebhinn Lucy	Biological Sciences	Canadian Institutes of Health Research (CIHR)	Open Operating Grant	Molecular mechanisms regulating B cell signalling and activation	\$120,896.00
		Canada Foundation for Innovation	Infrastructure Operating Fund (IOF-LOF)	Lymphocyte Biology Laboratory for the study of the mechanisms of immune cell activation and signalling	\$7,257.88
		John R. Evans Leaders Fund	Spatially-resolved biochemistry	\$15,789.47	
		Infrastructure Operating Fund (IOF)	Spatially-resolved biochemistry	\$4,864.86	
		Hospital for Sick Children	CIHR Subgrant	Immuno-modulatory HIV-1 nanoparticles as a novel vaccine platform	\$35,738.93
		Ministry of Research, Innovation & Science	Small Infrastructure Fund	Spatially-resolved biochemistry	\$15,789.47
Trougakos, John Peter	Management	SSHRC	Insight Grant	Why are we not taking Our Breaks? Examining Predictors of Employee Work Break Choices	\$20,092.00
Tsuji, Leonard	Anthropology	SSHRC	Insight Grant	From subarctic Ontario, Canada, to the subtropics of New South Wales, Australia: the potential use of Strategic Environmental Assessment to protect the core elements of Indigenous culture	\$67,958.00
			Partnership Development Grant	Decreasing the Vulnerability of Subarctic and Arctic Aboriginal People to Environmental Change through an Innovative Decision-Support Tool	\$70,013.69
		University of Massachusetts	EPA Subgrant	Subsistence Hunting and Associated Activities of Native North Americans in Remote Communities: Measurement of Indoor Air Quality in Tents as Related to Wood-Smoke Exposures, and the Identification of Potential Health Risks	\$698.95

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Tsuji, Leonard	Anthropology	Canadian Institutes of Health Research (CIHR)	Project Grant	Do Land-Centered Mitigation Strategies Positively Impact Indigenous Health and Wellbeing in subarctic Canada?	\$212,295.00
			Team Grant	Food Security and Climate Change in Subarctic Canada: Challenges and Opportunities	\$15,000.00
Uliaszek, Amanda Ann	Psychology	SSHRC	Insight Development Grant	Bridging Development and Disturbance: A Unified, Transtheoretical Approach to the Study of Identity	\$5,428.17
Valencia, Diana	Physical & Environmental Sciences	NSERC	Discovery Grant	Formation and Evolution of super-Earths and sub-Neptune Planets	\$19,000.00
Vanler-Berghe, Greg	Biological Sciences	NSERC	Discovery Grant	Alternative oxidase of plant mitochondria	\$40,000.00
				Metabolic and signaling interactions between plant mitochondria and chloroplasts	\$40,000.00
Vernon, Karina Joan	English	SSHRC	Insight Grant	Black Canadian Art and the Aesthetics of Spatial Justice	\$11,914.00
Virag, Balint	Computer & Mathematical Sciences	NSERC	Discovery Grant	Random Eigenvalues	\$38,000.00
Wania, Frank	Physical & Environmental Sciences	Aboriginal Affairs & Northern Development Canada	Northern Contaminants Program	Passive Air Sampling Network for Organic Pollutants and Mercury	\$5,750.00
		CEFIC – European Chemical Industry	Operating Grant	Improved characterization of partitioning and biotransformation for screening organic compounds for the potential to bioaccumulate in air-breathing species	\$221,423.61
		MITACS	Elevate PDF	Integrated Far- and Near-Field Human Exposure Modelling for Organic Substances	\$52,532.05
				A mass balance modelling framework for chemicals and their primary metabolites for ecological and human health assessment	\$10,000.00
			Accelerate Ontario	Passive air sampling for gaseous mercury in workplace atmospheres and for personal inhalation exposure monitoring	\$9,925.91
		NSERC	Discovery Grant	Theoretical and Experimental Approaches to Describe the Chemodynamics of Hydrophobic Organics, Ionogenic Organics and Methyl Mercury in the Food Chain	\$89,000.00
Way, Lucan Alan	Political Science	SSHRC	Insight Grant	Revolutionary struggle and authoritarian durability after the Cold War	\$15,849.00
Wei, Jason	Management	SSHRC	Insight Grant	Trading behavior of option investors	\$28,996.00
Weir, Jason Tyler	Biological Sciences	NSERC	Discovery Grant	The biogeographic drivers and genomic architecture of speciation in Amazonian birds	\$37,000.00
			Discovery Accelerator Supplements	The biogeographic drivers and genomic architecture of speciation in Amazonian birds	\$40,000.00
Welch Jr., Kenneth Collins	Biological Sciences	Environment Canada	Pollution Program	Assessing impacts of Neonicotinoid insecticides in agroecosystems to migratory bird pollinators, hummingbirds	\$40,000.00
		Human Frontier Science Program	Operating Grant	Optimization of Metabolic Flux in the Hummingbird: From Enzymes to Ecology	\$99,427.51

Research Funding

<u>FACULTY</u>	<u>DEPARTMENT</u>	<u>SPONSOR</u>	<u>PROGRAM</u>	<u>PROJECT TITLE</u>	<u>AWARDED</u>
Welch Jr., Kenneth Collins	Biological Sciences	MITACS	Globalink	Sublethal effects of neurotoxic pesticides on bats: from cells to behavior	\$2,399.92
		NSERC	Discovery Grant	Divergent mechanisms, convergent phenotype: the comparative physiology of glucose and fructose oxidation in vertebrate nectarivores	\$28,000.00
Wells, Mathew	Physical & Environmental Sciences	Environment Canada	Great Lakes University Research Fund	Dissolved oxygen dynamics in Hamilton Harbour	\$21,600.00
		NSERC	Discovery Grant	Transport and mixing of particles in stratified environmental flows	\$48,000.00
			Discovery Accelerator Supplements	Transport and mixing of particles in stratified environmental flows	\$40,000.00
Wilson, Jessica Marie	Philosophy	SSHRC	Insight Grant	How Metaphysical Dependence Works: A Case Study in Metaphysical Methodology	\$22,158.00
Zakzanis, Konstantine	Psychology	Canadian Institutes of Health Research (CIHR)	CGS Doctoral Award	Kyrsten Grimes – CIHR CGS Doctoral award – On the relationship between neurocognition, cognitive biases, and automatic thoughts: The development of positive symptoms in Schizophrenia	\$35,000.00
				Courtney Berezuk – CIHR CGS Doctoral award – Functional reserve hypothesis: A novel theoretical construct with implications for identifying, delaying, and treating functional disability associated with neurodegeneration	\$35,000.00
		MITACS	Accelerate Ontario	UTSC/MHS/RREES Inter-disciplinary Assessment & Rehabilitation Centre for Excellence	\$2,343.75
				On the nature of neurocognitive dysfunction in depressive disorders I Cognitive Impairment Secondary to Depressive Symptomology and its Relationship with Functional Impairment [S. Dhillon]	\$16,666.67
Zhang, Xiaohan	Physical & Environmental Sciences	NSERC	Discovery Grant	Next Generation Molecular Probes for Magnetic Resonance Sensing and Imaging: Design, Synthesis, Evaluation and Application	\$30,000.00
			Engage Grant	Zhang-Genecis VIPI Food Waste-Derived PHA Monitor and Quantification	\$18,750.00
			Ontario Centres of Excellence	Research Contract	Zhang-Genecis VIPI Food Waste-Derived PHA Monitor and Quantification
Zhao, Rongmin	Biological Sciences	NSERC	Discovery Grant	Role of molecular chaperone HSP90 in regulating plant fertility and yield	\$4,875.00
				Protein homeostasis in plant organelles: Chloroplasts and ER	\$26,000.00
Zweig, David	Management	SSHRC	Insight Grant	Successful Psychopaths and Targets of Knowledge Theft	\$8,404.00
Total					\$12,039,722.62



Select Publications

by Research Faculty

This list includes publications from **July 2018 to December 2019**. For co-authored/multi-authored entries, the name(s) of U of T Scarborough faculty involved have been **bolded**. The list was compiled from the Scopus database and supplemented with select publications. **The list is not comprehensive.**

JOURNAL ARTICLES (625)

- Abdel-Nour, M., Su, H., Duncan, C., Li, S., Raju, D., Shamoun, F., . . . **Terebiznik, M. R.** (2019). Polymorphisms of a collagen-like adhesin contributes to legionella pneumophila adhesion, biofilm formation capacity and clinical prevalence. *Frontiers in Microbiology, 10*(APR).
- Abdinejad, M., Seifitokaldani, A., Dao, C., Sargent, E. H., **Zhang, X., & Kraatz, H-B.** (2019). Enhanced electrochemical reduction of CO₂ catalyzed by cobalt and iron amino porphyrin complexes. *ACS Applied Energy Materials, 2*(2), 1330-1335.
- Abdul Hussain, B., Westgate, J. N., Hayward, S. J., Shunthirasingham, C., Brown, T. N., Hung, H., . . . **Wania, F.** (2019). Polycyclic aromatic hydrocarbons and polychlorinated biphenyls in soils and atmosphere of western Canadian mountains: The role of source proximity, precipitation, forest cover and mountain cold-trapping. *Atmospheric Environment, X, 1*.
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- Abuaish, S., Spinieli, R. L., & **McGowan, P. O.** (2018). Perinatal high fat diet induces early activation of endocrine stress responsivity and anxiety-like behavior in neonates. *Psychoneuroendocrinology, 98*, 11-21.
- Ackerman, N. L., Freer, C. E., & **Roy, D. M.** (2019). On the computability of conditional probability. *Journal of the ACM, 66*(3).
- Adamson, K., Sengsavang, S., **Charise, A.**, Wall, S., Kinross, L., & Balkaran, M. (2018). Narrative training as a method to promote nursing empathy with in a pediatric rehabilitation setting. *Journal of Pediatric Nursing, 42*, e2-e9.
- Ahmad, S., She, Z., & **Kraatz, H-B.** (2019). Electrochemical studies of human nAChR $\alpha 7$ subunit phosphorylation by kinases PKA, PKC and src. *Analytical Biochemistry, 574*, 46-56.
- Ahmadi, S., Zhu, S., Sharma, R., Wilson, D. J., & **Kraatz, H-B.** (2019). Interaction of metal ions with tau protein. The case for a metal-mediated tau aggregation. *Journal of Inorganic Biochemistry, 194*, 44-51.
- Ahmadi, S., Zhu, S., Sharma, R., Wu, B., Soong, R., Dutta Majumdar, R., . . . **Kraatz, H-B.** (2019). Aggregation of microtubule binding repeats of tau protein is promoted by Cu²⁺. *ACS Omega, 4*(3), 5356-5366.
- Al Disi, Z. A., Zouari, N., **Dittrich, M.**, Jaoua, S., Al-Kuwari, H. A. S., & Bontognali, T. R. R. (2019). Characterization of the extracellular polymeric substances (EPS) of virgibacillus strains capable of mediating the formation of high mg-calcite and protodolomite. *Marine Chemistry, 216*.
- Alber, N. A., & **Vanlerberghe, G. C.** (2019). Signaling interactions between mitochondria and chloroplasts in nicotiana tabacum leaf. *Physiologia Plantarum, 167*(2), 188-204.
- Alibrahim, A., Al-Gharabally, D., Mahmoud, H., & **Dittrich, M.** (2019). Proto-dolomite formation in microbial consortia dominated by halomonas strains. *Extremophiles, 23*(6), 765-781.
- Al-Labadi, L., & **Evans, M.** (2018). Prior-based model checking. *Canadian Journal of Statistics, 46*(3), 380-398.
- Allen, B., & **Mandrak, N. E.** (2019). Historical changes in the fish communities of the Credit River watershed. *Aquatic Ecosystem Health and Management, 22*(3), 316-328.
- Allen, J., & **Farber, S.** (2019). Sizing up transport poverty: A national scale accounting of low-income households suffering from inaccessibility in Canada, and what to do about it. *Transport Policy, 74*, 214-223.
- Allen, J., & **Farber, S.** (2018). How time-use and transportation barriers limit on-campus participation of university students. *Travel Behaviour and Society, 13*, 174-182.
- Allen, T. A., DeYoung, C. G., **Bagby, R. M.**, Pollock, B. G., & Quilty, L. C. (2019). A hierarchical integration of normal and abnormal personality dimensions: Structure and predictive validity in a heterogeneous sample of psychiatric outpatients. *Assessment*.
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- Andrei, D., Carlin, B., & **Hasler, M.** (2019). Asset pricing with disagreement and uncertainty about the length of business cycles. *Management Science, 65*(6), 2900-2923.
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- Aramesh-Boroujeni, Z., Jahani, S., Khorasani-Motlagh, M., **Kerman, K.**, Aramesh, N., Asadpour, S., & Noroozifar, M. (2019). Experimental and theoretical investigations of dy(III) complex with 2,2'-bipyridine ligand: DNA and BSA interactions and antimicrobial activity study. *Journal of Biomolecular Structure and Dynamics*.
- Aramesh-Boroujeni, Z., Jahani, S., Khorasani-Motlagh, M., **Kerman, K.**, & Noroozifar, M. (2019). Evaluation of DNA, BSA binding, DNA cleavage and antimicrobial activity of ytterbium(III) complex containing 2,2'-bipyridine ligand. *Journal of Biomolecular Structure and Dynamics*.
- Arancibia, D., **Farber, S.**, Savan, B., Verlinden, Y., Smith Lea, N., Allen, J., & Vernich, L. (2019). Measuring the local economic impacts of replacing on-street parking with bike lanes: A Toronto (Canada) case study. *Journal of the American Planning Association, 85*(4), 463-481.
- Arhonditsis, G. B.**, Neumann, A., Shimoda, Y., Javed, A., Blukacz-Richards, A., & Mugalingam, S. (2019). When can we declare a success? A Bayesian framework to assess the recovery rate of impaired freshwater ecosystems. *Environment International, 130*.
- Arik, H.** (2018). Secular risk governance and the Turkish military's battle with political Islam, 1980s–2000s. *Security Dialogue, 49*(4), 306-323.

- Baek, S., Jun, S., Kim, B., Proppe, A. H., Ouellette, O., **Voznyy, O.**, . . . Sargent, E. H. (2019). Efficient hybrid colloidal quantum dot/organic solar cells mediated by near-infrared sensitizing small molecules. *Nature Energy*, 4(11), 969-976.
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- Berghuijs, W. R., Harrigan, S., **Molnar, P.**, Slater, L. J., & Kirchner, J. W. (2019). The relative importance of different flood-generating mechanisms across Europe. *Water Resources Research*, 55(6), 4582-4593.
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Select Publications

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