



Research & Innovation

ANNUAL REPORT 2017-18





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Message from VPR

Research and Innovation are Front & Centre

at the University of Toronto Scarborough

From its beginnings, this campus has been an integral part of the University of Toronto, and has inspired and educated students to become problem solvers of tomorrow. Our world-class faculty members 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 develop ideas and focus on problems that matter.

University of Toronto Scarborough's outstanding research environment is deeply embedded in the university's long history. And we are on a path to continue to provide and further enhance the strength of our research enterprise by hiring the best faculty, admitting top students at all levels, providing innovative academic programs and educating the brightest minds of tomorrow.



At U of T Scarborough, our faculty are thought leaders recognized for excellence in their fields. We are committed to ensuring that students get research experience as early as possible – and to providing a top-notch experience for our growing body of graduate students and postdoctoral fellows. As part of our commitment to nurturing entrepreneurship, The Hub provides an innovation space 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 enhance human conditions. Our research strengths span areas as different as environmental sciences, clinical psychology, neuroscience and cultural studies. It is this diverse expertise, nestled in interdisciplinary and international collaboration, that enables us to tackle the issues of climate change, poverty, access to health care and other societal concerns that challenge humanity right now. It is this expertise that makes us proud to co-create communities, advocate for change, and push the boundaries of knowledge.

In these pages, you'll discover just a small fraction of the impressive work we're doing here at Canada's leading university. We invite you to follow our research news and share in this exciting world of discovery and impact.

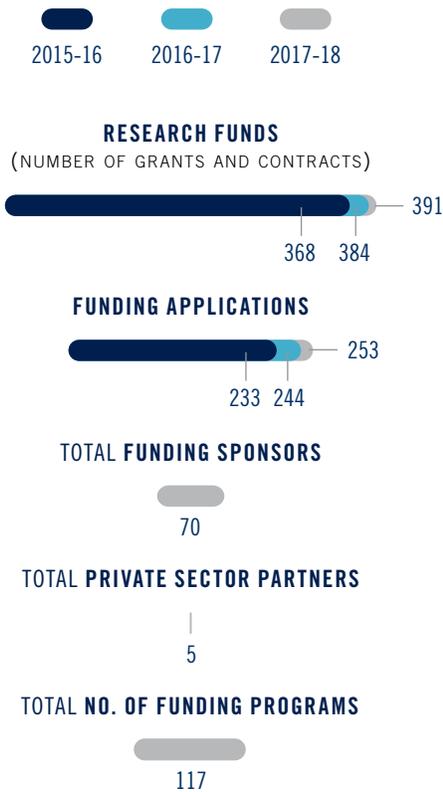
H. Bernie Kraatz, PhD
Professor and Vice-Principal Research

We are committed to ensuring that students get research experience as early as possible – and to providing a top-notch experience for our growing body of graduate students and postdoctoral fellows.”

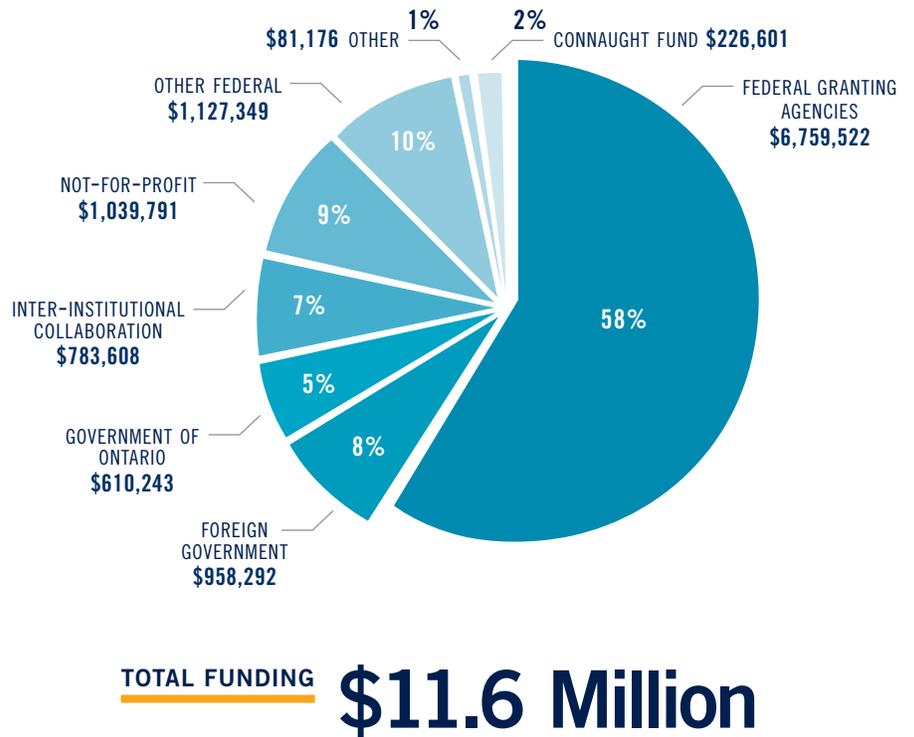


Impact by the Numbers

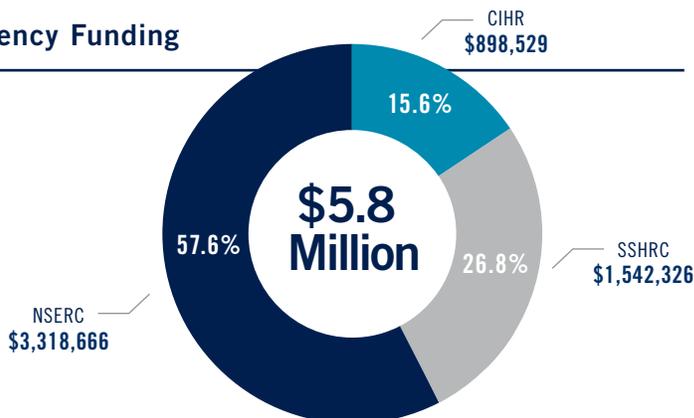
General Statistics (BY YEAR)



Total Research Funding by Source



Tri-Agency Funding



Entrepreneurship – The Hub (2017-18)

COMBINED REVENUES AND INVESTMENT OF HUB STARTUPS INCREASED

\$100,000

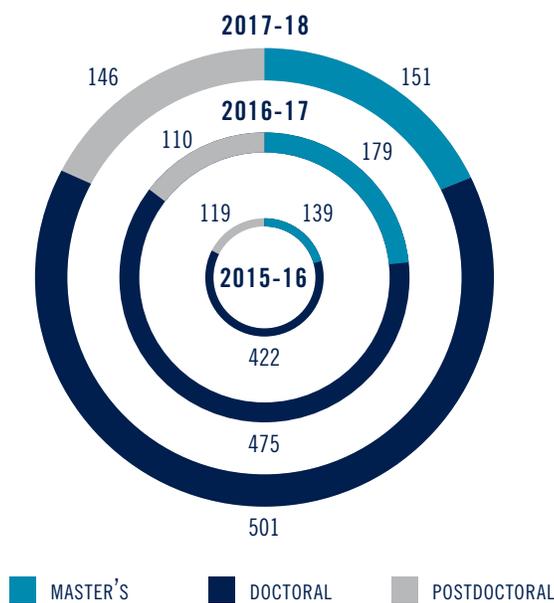
560 STUDENTS PARTICIPATED IN HUB EVENTS

30 COMPANIES FORMED

Grant Success



Supervisions by U of T Scarborough Faculty



TOTAL

2015-16 **680**

2016-17 **764**

2017-18 **798**

2017-18 Statistics

RESEARCH FACULTY

250 2015-16 — 235
 2016-17 — 239

PUBLICATIONS

JOURNAL ARTICLES — 524
 BOOK CHAPTERS — 27
 BOOKS — 17
 OTHER — 117

Commercialization

	2013-14	2014-15	2015-16	2016-17	2017-18*	TOTAL
NEW INVENTION DISCLOSURES**	● ●	● ●	●	● ●	● ●	9
PRIORITY PATENT APPLICATIONS FILED	●	●		● ●	●	5
LICENSE AND OPTION AGREEMENTS	●				●	2
START-UP COMPANIES FORMED BY FACULTY		● ●		●		3

* Data for 2017-18 is preliminary and may change until finalized in 2019.

** Counts with at least one inventor from UTSC (full counts rather than weighed by inventor).

Our Stories



AN EVOLUTIONARY SURPRISE:

Brain size decrease due to habitat change

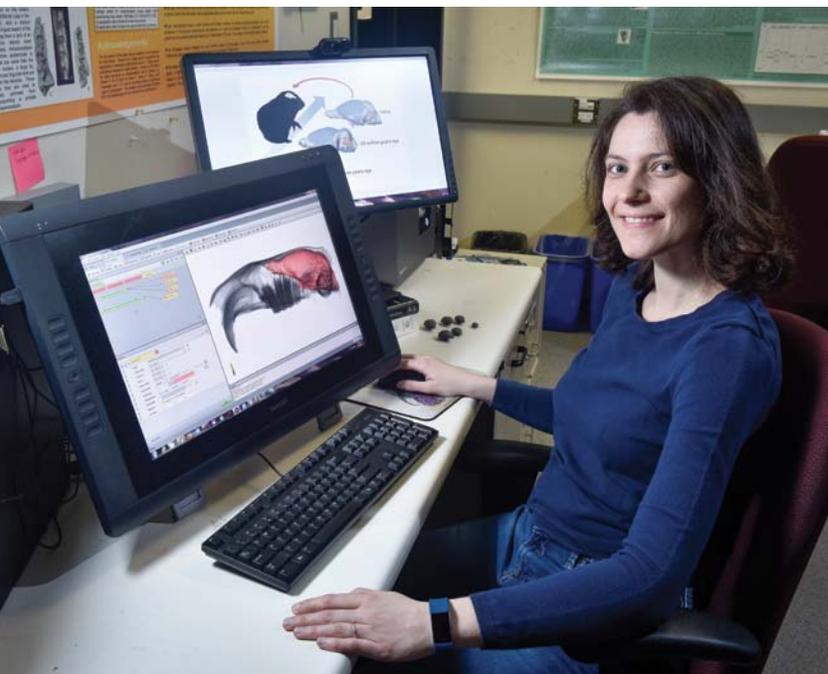
Modern-day mountain beavers have a smaller relative brain size than their ancestors did, a surprising evolutionary finding in wild species.

Ornella Bertrand, a postdoctoral fellow in the Department of Anthropology, is the lead author of a study that compared virtual endocasts – the imprint the brain makes against the inner part of the cranium – and found that the part of the brain related to sight may be what shrank over time.

Unlike its ancestor, which lived in trees, the modern mountain beaver adapted to burrowing, meaning it lives mostly underground. Being less reliant on its vision, it appears an area of the neocortex responsible for sight may have shrunk over time in this species.

An evolutionary decrease in brain size has been observed in domesticated animals such as chickens, pigs and dogs, but this is a rare example of a decrease in brain size due to a specific shift in where the animal spends most of its time, says Bertrand.

A member of Professor Mary Silcox's lab at U of T Scarborough, Bertrand took first place in the Taylor and Francis Best Student Paper Award, a top prize from an international paleontology society for her paper exploring rodent brains.



BEYOND GPS:

Monkeys can plan their routes

Julie Teichroeb found that vervet monkeys can solve multi-destination routes in the same way humans do.

An assistant professor in the Department of Anthropology, Teichroeb is also lead author of a study showing that the monkeys apply simple rules of thumb to find relatively short routes without having to think too much about it. “People are amazed that animals can often find the shortest route when foraging for food, and the big question is how they’re able to figure it out,” she says. “Solving these kinds of routes is extremely difficult mathematically but we’ve found that these monkeys, much like us, rely on heuristics.”

Teichroeb and study co-author Eve Smeltzer, a PhD student in U of T’s Department of Anthropology, observed the vervets at Lake Nabugabo in Uganda.

Vervet monkeys, which are found mostly throughout southern Africa, help serve as a non-human primate model for understanding genetic and social behaviours in humans. They’ve been observed to experience hypertension, anxiety and social dependency, and even display spiteful behaviour.

Exploring molecular mechanisms of virus infection

For **Christina Guzzo**, the prospect of working in a room containing potentially deadly pathogens is an exciting and essential part of her research.

An assistant professor in the Department of Biological Sciences, Guzzo received support from the John R. Evans Leaders Fund, which helps to create infrastructure for cutting-edge laboratories. Her lab will conduct advanced research on HIV.

Guzzo cares deeply about the influence HIV stigma has on public policy and about other social hurdles HIV-positive people are needlessly forced to encounter every day. For her, spreading the word

about medical advancement is essential not only because of her own line of work, but because she recognizes that as breakthroughs are made in HIV treatment, we must also adapt how we treat people with HIV socially.

“Any young Canadian who is diagnosed early and adherent to antiviral treatment can live a long, fulfilling and relatively ‘normal’ life,” says Guzzo. “In the long term, our research will provide new ways to extend the lifespan of HIV-infected individuals, and ultimately, aims to contribute knowledge to the ongoing quest for effective HIV vaccine and cure strategies.”



How will climate change affect the spread of disease?

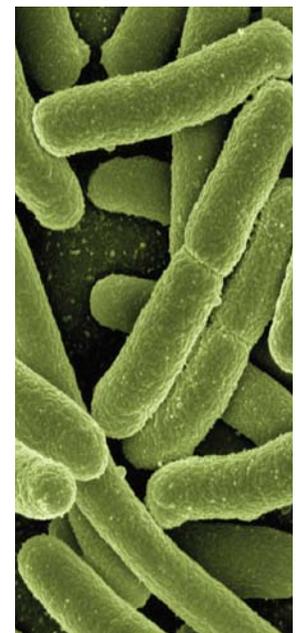
A new model developed by **Péter Molnár** may help researchers better understand how diseases will be affected by climate change.

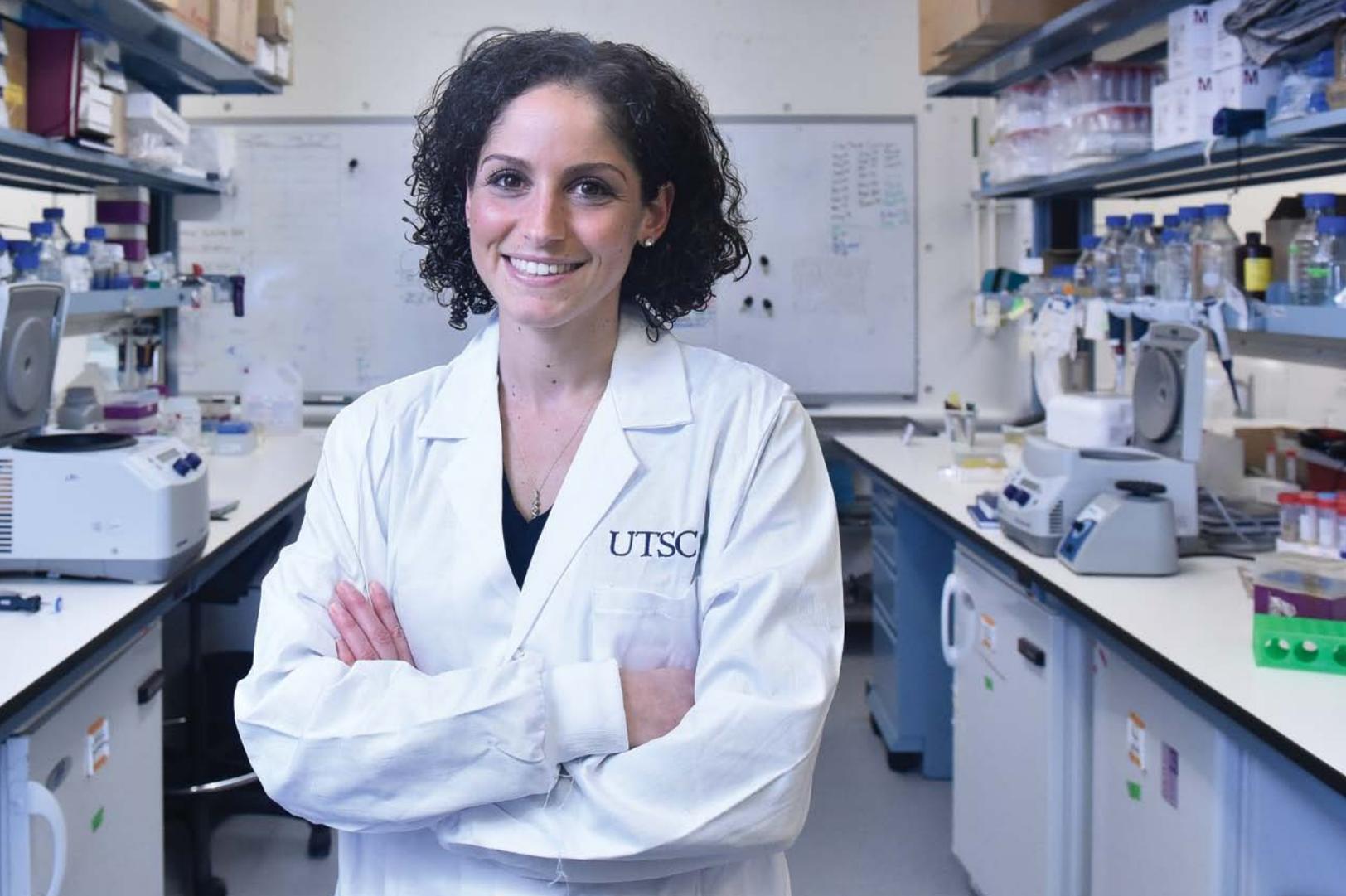
“Climate change is altering the environment as we know it and it’s also changing the interactions species are having with parasites and pathogens,” says Molnár, an assistant professor in the Department of Biological Sciences.

“The ultimate goal is to have some predictive capability for how these interactions are changing due to changing temperatures, [so that we can] help manage the spread of disease in humans and animals.”

Molnár and his team developed a model that uses physiological characteristics from well-known species, such as the malaria parasite, and applies them to understudied ones.

“If we can get some idea of what may happen with climate change, you can start to plan for the time when a disease arrives, and this applies to wildlife, cattle, humans – whatever you want to manage,” says Molnár.





The complexity of beating a personal best

“Personal bests” act as reference points in human behaviour.

“If your personal best is 28 push-ups and you get 29, then you feel much, much happier than if you do 27, even though [the two numbers] are very close,” says **Ashton Anderson**, an assistant professor in the Department of Computer and Mathematical Sciences.

Anderson co-led a study with colleagues from the Wharton School at the University of Pennsylvania that analyzed a dataset of more than 130 million chess games by 70,000 players.

So if personal bests are used as reference points, how do we expect them to affect how people behave?

Anderson says individuals will exert extra effort the closer they get to their personal best, and will stop playing as soon

as they surpass it. They won’t risk playing another game and sinking below where their personal best used to be. But eventually they’ll come back and try again.

To bridge models in social sciences and computer science, Anderson believes finding more reference points will make social science theories more predictive.

Computation is having a significant impact on the social sciences, where historically lab studies were limited to the number of participants. “Now we have datasets of billions of people, searching for what they want to find, talking to their friends, finding romantic partners and so on. [Big] datasets and the computational resources that we have to process them are akin to the invention of the telescope. Before, we were just looking at the stars with our bare eyes.”





Adapting our view on dementia

Marlene Goldman, a professor of English and expert in contemporary Canadian literature and the gothic, is changing the way we view aging and dementia.

Goldman worked with neurologists and clinicians to understand the current perspective on the condition. When she finished her book, *Forgotten: Narratives of Dementia and Alzheimer's Disease in Canada* (McGill-Queen's University Press, 2017), she wanted to make its subject accessible to the audience she studied.

That's when she added "filmmaker" to her resumé.

Goldman adapted Nobel winner Alice Munro's short story, "In Sight of the Lake" for the screen because it offers an alternative to the gothic approach to dementia.

Working in film was a contrast to the solitary scholarly writing experience. "It was amazing to move from an individual process to co-writer, co-director and producer."

She worked with experienced writer and director Philip McKee, whom she credits with making her work better.

"How we understand and respond to cognitive decline is based on our culture," says Goldman. "People with dementia don't always share our sense of 'reality,' but when we take the trouble to forge connection, everyone benefits because we gain access to a fascinating, alternative and imaginative view of the world."

SINO-WESTERN RELATIONS AND LAW:

Top book prize

Li Chen has won one of the most prestigious awards in Chinese studies from the Association for Asian Studies (AAS) for his book *Chinese Law in Imperial Eyes: Sovereignty, Justice and Transcultural Politics* (Columbia University Press, 2016). The AAS awarded the Joseph Levenson Book Prize to Chen, who is the chair of the Department of Historical and Cultural Studies.

The book takes a unique look at how Western views of China and Chinese law were influenced in the century leading up to the First Opium War (1839-1842).

Chen argues that recovering the varied and contradictory roles of Chinese law in Western “modernization” helps focus the subsequent Euro-American discourse of global modernity through the eyes of China.

“This book was part of the collective effort of a growing number of scholars to re-situate the conversation about Chinese cultural, legal, social or economic traditions,” says Chen.

The book shows how constructed differences between societies were first hardened into cultural or racial boundaries and then politicized to make sense of international conflicts and hierarchy.

Chen draws on recent work in anthropology, cultural studies, critical legal



studies, history of international law and empire, post-colonial theories, and Chinese history and Sino-Western relations. His book also sheds new light on important topics such as the formation of comparative Chinese law in the West, the origins of the First Opium War and the application of foreign laws in China.

The AAS awards the Joseph Levenson Book Prizes to two English-language books (on the pre-1900 and the post-1900 periods respectively) that make the greatest contribution in increasing the understanding of history, culture, society, politics or the economy of China.

Making Toronto transit better

The King Street pilot project aims to improve travel times for Toronto Transit Commission commuters along Toronto’s busiest streetcar route – and it seems to be doing just that.

Steven Farber, an assistant professor in the Department of Human Geography, worked on the project. He is also co-director of U of T’s Spatial Analysis of Urban Systems lab, which conducted the research on the King Street pilot. “[Travel] times have been improved by about four to five minutes during the rush hour period,” says Farber.

The pilot aimed to reduce car traffic along a 2.6 kilometre stretch of King Street by allowing motorists to drive only one block before forcing them to turn right, giving priority to streetcars, which transport more than 65,000 passengers per day.

“From a transit perspective and an operational perspective, the pilot is achieving the goal of providing a much faster and more reliable transit route to tens of thousands of people daily,” says Farber.

A truly interdisciplinary program



Andrea Charise, an assistant professor in the Department of English and Interdisciplinary Centre for Health and Society, is the lead developer of Canada's first undergraduate program in health humanities. The program looks at the impact of the humanities and critical social sciences on health.

"Health humanities or medical humanities, as it's also sometimes called, can take a few different forms," Charise says. "One approach involves more theoretical considerations of health, illness, disability and embodiment, as well as the aesthetics of representing illnesses like AIDS, cancer, dementia or depression in various creative media. But the field also encompasses more applied, hands-on practices: the use of arts-based health interventions such as art therapy, 'narrative medicine,' universal design, and healthcare architecture, to name just a few."

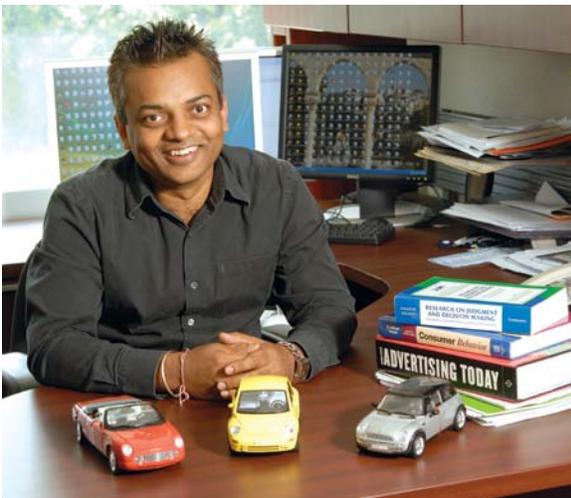
Charise is a literary scholar with more than 15 years of experience as a medical researcher, primarily in geriatrics. Her interdisciplinary research aims to highlight the fascinating texture of aging, which is far more complex than the usual platitudes regarding decline or so-called "successful" aging.

The founding director of SCOPE: The Health Humanities Learning Lab (an arts- and humanities-based research and education initiative at U of T Scarborough), Charise is the first recipient of the Digital Scholars Fellowship, co-sponsored by the Jackman Humanities Institute and University of Toronto Scarborough, which allows her to explore the special affordances of a digital approach to age studies and health humanities more generally.

"An interdisciplinary field like health humanities has many possible futures," says Charise. "One important thread to follow will be how the relationship between arts, humanities and health plays out in different national contexts. The amplification of voices, experiences and communities that have historically been marginalized or exploited in the name of health care, research and policy is another necessary future for this field."

FACING DOMINANCE:

Why we may prefer a wider face on our clocks and cars



Research by **Pankaj Aggarwal** reveals that there may be an unconscious appetite among consumers for products that convey dominance.

Products like cars and watches are often marketed as sleek, classy and reliable. But that's not necessarily what consumers may be looking for when they go shopping.

"If these products are used in situations where you're competing with someone else, the goal may be dominance," says Aggarwal, a marketing professor in the Department of Management and U of T's Rotman School of Management.

Aggarwal studies the notion of anthropomorphism, the idea of attributing human traits to non-human entities.

"While people don't want to interact with dominant human faces, we found they prefer it in certain products when their goal is dominance," says Aggarwal.

So what are the lessons for product designers, marketers and consumers?

Aggarwal says designers may want to look beyond just aesthetics and functionality to also consider how the product represents certain traits, like dominance or warmth. "With cars, some may find it useful to convey dominance, but for others, like health-care products, you may want to signal the complete opposite trait."



Uncovering rock-carved churches

Michael Gervers' research focuses on digitally preserving the knowledge and technique of how Ethiopia's rock-cut churches are made.

A professor in the Department of Historical and Cultural Studies, Gervers has travelled to Ethiopia three times since 2015, and uncovered 20 modern churches across the country.

Gervers' work has attracted the attention of descendants of Ethiopian royalty. Prince Ermias Sahle-Selassie Haile-Selassie, the grandson of the country's last ruling emperor, awarded Gervers the Grand Cross of the Order of the Star of Ethiopia in recognition of his research.

There are hundreds of rock-cut churches scattered throughout Ethiopia, some dating as far back as the 12th century, with a few containing the finest examples of monumental stonework found anywhere in the world. But many thought the practice of carving churches from rock had all but disappeared 500 years ago. Even scholars of Ethiopian culture didn't seem to know it was still taking place in remote areas of the country.

"Scholars and government officials didn't seem to know it was happening. Even some

church officials seemed surprised it was taking place," says Gervers.

A crew of craftsmen, typically with no formal training and using only hammer and chisel, will carve out 50 centimetres of rock in a day. Carving a church 15 metres square by four metres high can take two years of non-stop work, and often progress is slowed by a lack of funds or workers.

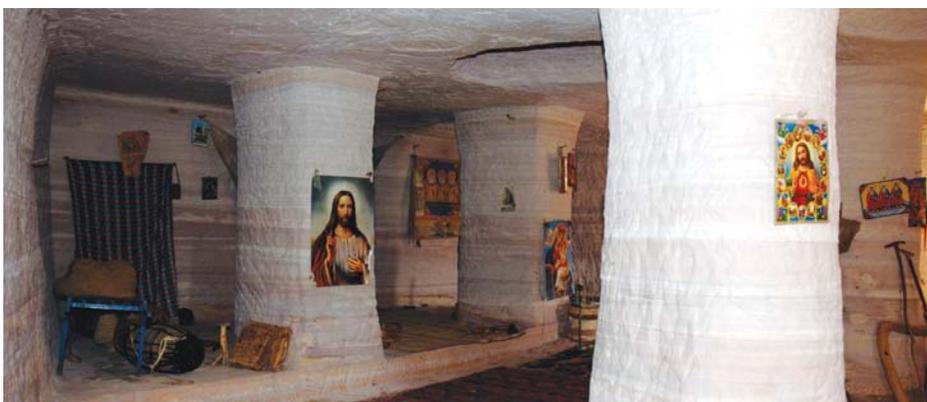
Since most of the modern rock-cut churches are being made in rural areas, the only way to find out more is to visit them. Often this involves travelling from village to village, and, once there, asking the craftsmen if they know of other churches that are being built, notes Gervers.

As for what continues to motivate him most about his research, he says it's as much the physical as the intellectual challenges that come along with it. Most of the churches are carved into the side of hills or mountains. Gervers has even had to scale down a sheer cliff on a rope to access a church.

"It's a challenge, but I'm perfectly happy in that environment," he says. "Other than basic food and water, I don't crave much in life. What motivates me most is seeing this project through."



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Changing landscape and Arctic ponds as a source of carbon emissions

Some ponds in the High Arctic may be a hidden source of greenhouse gases.

A study co-authored by Environmental Science Professor **Myrna Simpson** looked at how dissolved organic carbon (DOC) stored in Arctic permafrost is being released into Arctic watersheds as a result of physical disturbances that relocate nutrients across the landscape. For the first time, researchers were able to determine that the chemical composition of carbon in these ponds is vastly different than in rivers in the High Arctic.

“This is one of the novel findings of the study – that these ponds could play an important role in the global carbon cycle,” says Simpson. What’s more, she notes, the Arctic permafrost stores a lot of carbon because it generally remains frozen, locked into place for a long time. With rapid thawing of the permafrost, that’s changing. In fact, using radiocarbon dating, the researchers found DOC more than 5,000 years old that was being degraded.

An important next step for the research will be to see how widespread the phenomenon is, for example if it happens in all Arctic ponds and different types of bodies of water.

App as a tour guide in Rouge National Urban Park

A new mobile app for Rouge National Urban Park developed by U of T Scarborough students is so good, it’s like having a seasoned tour guide right in the palm of your hands.

The project was part of the students’ work placement with Parks Canada as part of the Arts & Science Co-op program, but work on the app took place in The Hub, U of T Scarborough’s centre for innovation and entrepreneurship, under the guidance of Hub Director **Gray Graffam**.

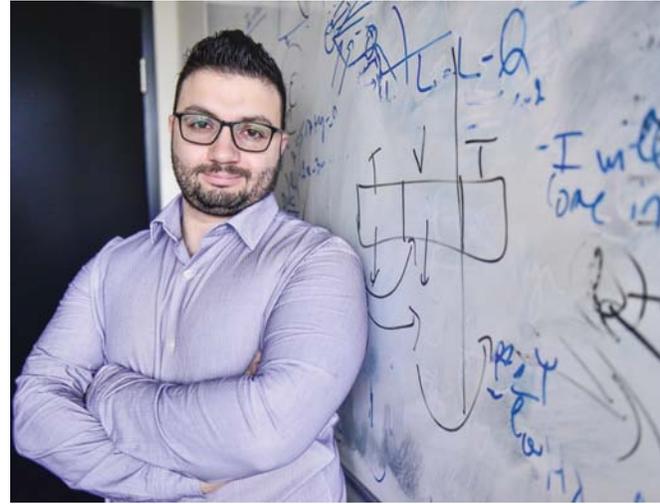
“We wanted the app to be user friendly and fun, one that highlights the amazing ecology and cultural history for people in real time,” says Kaitlyn Chow, a graduate of the master’s program in Environmental Science who helped develop the app.

Chow developed the content side of the app along with fellow Environmental Science master’s student Winston Lee, while Computer Science students Derek Etherton, Alex Cavanagh, Dayde Reid and Brian Au worked on the technical side. In addition to an interactive park map detailing trails and points of interest, users can also turn on a Rouge Tracking feature that acts as a GPS-based virtual tour guide.

More than 1,700 species have been documented in the park, which also includes a diverse range of habitats including meadows, wetlands, marshes and farmland, not to mention a stretch of Carolinian Forest found nowhere else in Canada. It also has a rich history spanning more than 10,000 years of human habitation.

Rouge National Urban Park is the first national park in Canada located in an urban setting.





Can the pursuit of happiness make us feel unhappy?



It helps if you can let go of happiness as a goal that needs constant pursuing and instead see it as something that is already all around you.”



Getting caught up in the pursuit of happiness may end up making us feel unhappy.

“The annoying thing about happiness for people interested in pursuing it is that it can be such a moving target,” says study co-author **Sam Maglio**, an assistant professor in the Department of Management and U of T’s Rotman School of Management.

“Happiness is something that everyone wants a little bit more of, but there’s no clearly defined end state for when you’ve got it.”

So what can people do if they want or need to pursue happiness as a goal?

For one, says Maglio, focus on the present thing that makes you happy, and appreciate the progress you’ve made in achieving it. If hiking makes you happy, for example, just focus on the current hike and not the lifetime of hikes you will need to take.

The other is to take stock of what’s already in your life that’s making you happy or providing you with a sense of happiness.

“It helps if you can let go of happiness as a goal that needs constant pursuing and instead see it as something that is already all around you.”

Using AI to study craters on the moon

A new technique developed by **Mohamad Ali-Dib** uses the same technology behind self-driving cars to measure the size and location of crater impacts on the moon.

“[We’ve] developed a technique from artificial intelligence that can automate this entire process, [saving] significant time and effort,” says Ali-Dib, a postdoctoral fellow in the Centre for Planetary Sciences (CPS).

“It’s the first time we have an algorithm that can detect craters really well for not only parts of the moon, but also areas of Mercury,” Ali-Dib says. He developed the technique along with Ari Silburt, Chenchong Charles Zhu and a group of researchers at CPS and the Canadian Institute for Theoretical Astrophysics (CITA).

Knowing the size and location of craters on bodies like the moon is important because it offers a window into the history of our solar system. By studying impact craters of all shapes, sizes and ages, we can better understand the distribution of material and the physics that occurred in the early stages of our solar system.



IMPERIAL GATHERINGS:
**Interplay between
popular and
elite cultures**

In his research, **Jackson Yue Bin Guo** focuses on the interplay between popular and elite cultures.

A PhD candidate of late imperial Chinese history who works with Professor Li Chen in the Department of Historical and Cultural Studies, Guo is also affiliated with the Culinarium Research Centre.

His research focuses on how alcohol shook the distinctive features of social class, ethnicity and other constructed boundaries during the Qing dynasty (1644–1912).

“What fascinates me about the Qing dynasty is that the empire was massive, so there was a flourishing of trade and a lot going on culturally that was so influential to the drinking culture,” says Guo. “A big part of my research going forward is looking at the different ways drinking habits of the elites were influenced by commoners. We’re talking about 300 million people around that time, so it’s very likely that elites were influenced by what was going on among commoners.”

To conduct his research, Guo went to four of the larger archives in China and Taiwan, spending a month in the First Historical Archives of China in Beijing, where most of the Qing records are kept, to manually copy research material.



Fresh vision for public art policy

Toronto needs to develop a fresh vision for its public art projects.

This is the key finding of *Redefining Public Art in Toronto*, a comprehensive report co-authored by **Dan Silver**, associate professor in the Department of Sociology, and Dr. Sara Diamond, president and vice-chancellor of OCAD University.

The authors and their teams interviewed artists, architects, developers, politicians and other experts in Toronto



and Montreal. They also relied on an inventory map of all public art projects completed in Toronto from 1967 to 2015, looked at a host of public art policy documents for the City of Toronto and collected similar documents from 30 other cities around the world as part of a comparative analysis.

The result? While there are areas where Toronto is doing well, there are clear areas where it's falling behind.

A key area of improvement is how the city goes about funding art projects. The number of public artworks in Toronto is at an all-time high but investment has lagged

compared to cities like Chicago, San Francisco, Vancouver and Montreal.

"The funding model is pretty unique to Toronto; it's a maze and you can lose yourself in it," says Silver. "But the bottom line is that how projects get funded in Toronto is through a negotiation with developers for a percentage of development costs that then go towards public art."

Diamond and Silver say the report offers a path forward for the city by outlining eight key recommendations ranging from robust funding to better promotion of public art. They bring a wealth of experience from outside of academia, with Diamond being the chair of the advisory committee

for Nuit Blanche, while Silver was co-creator of the Art of the Danforth festival.

"Public art is about building a profoundly livable city," says Diamond. "There's no denying it has an aesthetic role, but it's more than just a decorative add-on; it can help play an important role in the future trajectory of the city."

"I hope when Toronto looks at its city-building plans in the coming years and decades, more of an effort will be made in reaching out to all of its neighbourhoods," Silver says.

"All of these areas have rich cultural activity and are deserving of an effective strategy."

The dangers of live journalistic reporting

Recent events suggest that the ability of journalists to safely do their job, like reporting live on location, has been greatly compromised – even for local news reporters. **Jeffrey Dvorkin**, director of the Journalism program, explains how an increase in attacks on the media can be attributed to societal shifts and changes in news organizations.

"At a certain point in time, news organizations decided to save money by only sending a reporter out by themselves without a camera person, without a producer to help set up the shot and be a second set of eyes and ears. [In] an Internet age, [this has] rendered the reporter more vulnerable," he says.

Dvorkin, who began his journalism career at CBS News in 1972, has seen a transformation in the media environment. "Previously war correspondents, people who did a lot of crime reporting, were the journalists ending up with PTSD, and now we're seeing it with photo editors, desk editors and copy editors. There is so much harshness out there that we have to figure out a better way that we can support good journalism and good journalists."

Dvorkin notes that all large institutions – media, government, education – are under attack. "The deference that the public used to give to the academy, the church, the media is gone. We're living in more troubled times, so our obligation is to present information, educational opportunities and development opportunities that make sense to people, and not just retreat behind ivory towers."





Is climate change driving hurricanes?

Athena Masson, a doctoral student in the Environmental Science program working with Professor William Gough, studies hurricanes in the Atlantic basin.

COMPARED TO OTHER YEARS, WAS 2017 AN UNUSUAL YEAR FOR HURRICANES?

Compared to recent years, the 2017 Atlantic hurricane season has been an active year, including the frequency of storm formation, major hurricane formation, and storms forming beyond the designated hurricane season.

The amount of activity can partly be attributed to the warm sea surface temperatures maintained over the mild North American winter season. The [U.S.] National Hurricane Center and other meteorological agencies called for an above-average hurricane season this year because of these contributing elements, and warned about the possibility of both more activity and higher strength in the Atlantic basin.

CAN WE SAY THAT HURRICANES LIKE HARVEY AND IRMA ARE A RESULT OF CLIMATE CHANGE?

Hurricanes like Harvey and Irma are consistent with what we can expect in a warming climate. But it's a bit tricky to say these storms are only caused by climate change. We are experiencing a slight positive trend in the frequency of tropical storms developing, but we are not yet seeing a change in their intensity – although it isn't out of the question that elements including intensity, duration and size are on the increase.

The fuel for Atlantic basin hurricanes comes from heat stored in the upper levels of the Atlantic Ocean, Caribbean Sea and Gulf of Mexico. Research in the U of T Scarborough Climate Lab and elsewhere has shown the sea surface temperatures in [these] bodies of water have increased. The atmosphere is also changing, and these changes may be affecting the creation and development of hurricanes. My research shows a clear trend for more hurricanes making landfall than in the past, which is a serious concern.

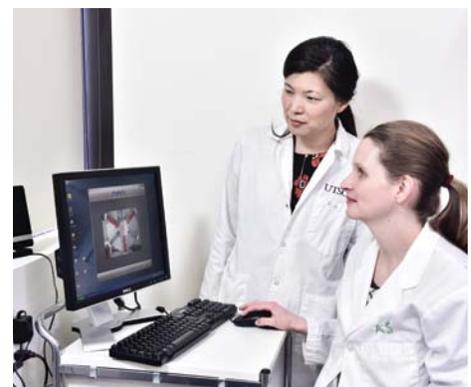
Surprising clues to anxiety and depression

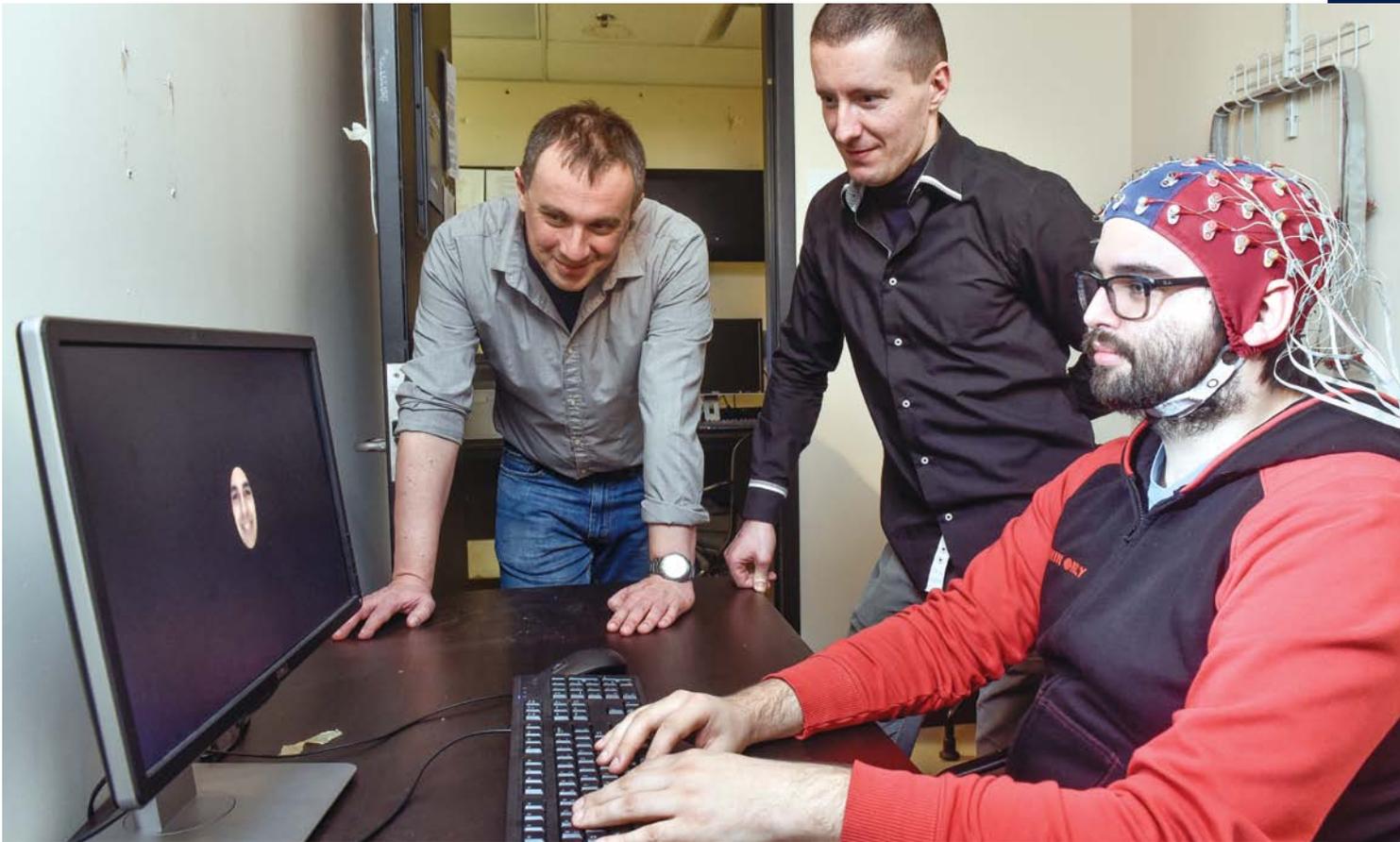
Rutsuko Ito and **Andy Lee**, both associate professors in the Department of Psychology, found that a specific part of the hippocampus could play an important role in emotional regulation.

The finding calls into question our understanding of how exactly this part of the brain works, since the hippocampus is an area of the brain commonly linked with memory and dementia.

“What this shows is that we may need to rethink how the hippocampus processes information,” says Ito.

If the hippocampus plays a role in basic motivational behaviour, it may offer important insights into a range of mental health illnesses. Addiction, for example, could be linked to deficits of approach motivation. Anxiety and depression, on the other hand, could be linked to avoidance behaviours, which could also manifest themselves in this part of the brain.





DO YOU SEE WHAT I SEE?
**A mind-reading
algorithm
reconstructs what
we perceive**

Researchers are now able to digitally reconstruct images of what people perceive, based on their brain activity.

A technique developed by **Dan Nemrodov**, a postdoctoral fellow in Assistant Professor **Adrian Nestor's** lab in the Department of Psychology, uses electroencephalography (EEG) data to obtain the images.

“When we see something, our brain creates a mental percept, which is essentially a mental impression of that thing. We were able to capture this percept using EEG to get a direct illustration of what’s happening in the brain during this process,” says Nemrodov.

This is the first time EEG has been used to reconstruct images based on visual stimuli using neuroimaging techniques. The technique could have wide-ranging clinical applications.

“It could provide a means of communication for people who are unable to communicate verbally. Not only could it produce a neural-based reconstruction of what a person is perceiving, but also of what they remember and imagine, of what they want to express,” says Nestor.

“It could also have forensic uses for law enforcement in gathering eyewitness information on potential suspects rather than relying on verbal descriptions provided to a sketch artist.

“What’s really exciting is that we’re not reconstructing squares and triangles but actual images of a person’s face, and that involves a lot of fine-grained visual detail,” adds Nestor.

“It unveils the subjective content of our mind and it provides a way to access, explore and share the content of our perception, memory and imagination.”



[EEG] could provide a means of communication for people who are unable to communicate verbally. Not only could it produce a neural-based reconstruction of what a person is perceiving, but also of what they remember and imagine, of what they want to express.”



Faculty Awards

INTERNAL



University of Toronto President's Impact Award 2017

U of T Scarborough Principal's Research Award 2018

ZINDEL SEGAL,
Psychology



U of T Scarborough Research Excellence Faculty Scholars 2018-21

JULIE MCCARTHY,
Management



ANTHONY RUOCCO,
Psychology



ANDRE SIMPSON,
Physical & Environmental Sciences



U of T Scarborough Research Recognition Award 2018

ARTUR IZMAYLOV,
Physical & Environmental Sciences

EXTERNAL



Royal Society of Canada Fellow 2017

FRANK WANIA,
Physical & Environmental Sciences



Alfred P. Sloan Foundation Research Fellowship 2018

ROBERT HASLHOFER,
Computer & Mathematical Sciences



GIULIO TIOZZO,
Computer & Mathematical Sciences



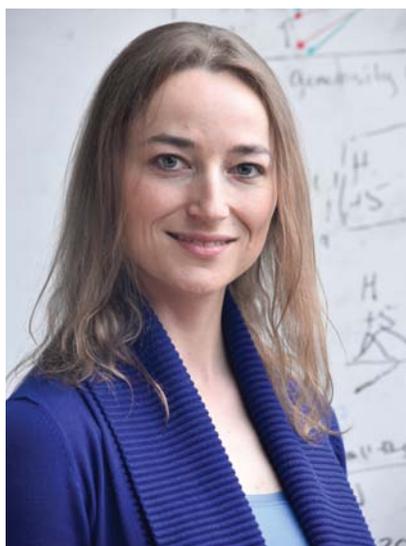
Ministry of Research, Innovation and Science Early Researcher Award 2018

STEFANOS ARETAKIS,
Computer & Mathematical Sciences



BLAKE RICHARDS,
Biological Sciences

Canada Research Chairs



CENDRI HUTCHERSON,
Canada Research Chair in Decision Neuroscience, 2018-2023

Cendri Hutcherson, an assistant professor of psychology and the director of the Toronto Decision Neuroscience Laboratory, is U of T Scarborough's most recent Canada Research Chair.

Hutcherson's research focuses on the development of neural and behavioural models of decision making and self-control. Her research program aims to explain and predict why people succeed or fail to make good choices in different contexts, and hopes to yield new technologies and strategies to help them improve their decision making. These strategies will allow individuals to set and achieve their goals more effectively, and will help create more effective health and educational policies.

CURRENT CANADA RESEARCH CHAIRS AT U OF T SCARBOROUGH



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



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



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



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



BIANCA SCHROEDER,
Computer & Mathematical Sciences, CRC in Data Centre Technologies, 2014-2019



MARNEY ISAAC,
Physical & Environmental Sciences / Centre for Critical Development Studies, CRC in Agroecosystems and Development, 2013-2018



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

Student Awards

2017-18

U OF T SCARBOROUGH UNDERGRADUATE RESEARCH POSTER FORUM

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



1ST PLACE

JANESSA TAM & HOI TAI LAU,
Centre for French & Linguistics

Processing digraphic text (Cantonese-English) in social media settings

2ND PLACE

TIAN LIN,
Physical & Environmental Sciences and Centre for Critical Development Studies

Community forestry approach to climate change adaptation: Example from the dry zone of Myanmar

3RD PLACE

SUMAYA DANO,
Interdisciplinary Centre for Health and Society

Social support and illness perception: How social support is associated with perceived symptom burden in patients on maintenance dialysis

Graduate Student Travel Grants 2017-18

\$22,995.46

(GRANT YEAR: MAY 1, 2017 — APRIL 30, 2018)



U of T Scarborough Undergraduate Research Prize 2017-18
(Co-sponsored by the Library and the Office of the Vice-Principal Research)



NIKOLAI MEEK,
Computer & Mathematical Sciences



OLIVIA RENNIE,
Psychology



KAREN WANG,
Arts, Culture & Media



Graduate Student Research Award 2017-18

JACOB KOUDYS,
Psychology, Master's level



SATHESAN THAVABALASINGAM,
Psychology, Doctoral level

Research Events



CELEBRATION OF RESEARCH EXCELLENCE LECTURE SERIES

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 crosses academic boundaries to build a sense of common identity, allowing recent award winners to share their notable discoveries, and fostering a collective passion for education and research," says [then] Acting Vice-Principal Research Marc Cadotte. "This is a forum that will stimulate the imaginations of those who share the need to know more."

The 2017-18 series was comprised of eight lectures, featuring leading U of T Scarborough scholars:

- MARC CADOTTE**, Biological Sciences
- LI CHEN**, Historical & Cultural Studies
- JAMIE DONALDSON**, Physical & Environmental Sciences
- MICHAEL INZLICHT**, Psychology
- MARNEY ISAAC**, Physical & Environmental Sciences / Centre for Critical Development Studies
- LISA JEFFREY**, Computer & Mathematical Sciences
- ANTHONY RUOCCO**, Psychology
- FRANK WANIA**, Physical & Environmental Sciences



NEW FRONTIERS SEMINAR SERIES

The **New Frontiers Seminar Series** showcases the newest research being conducted at University of Toronto Scarborough and highlights new discoveries from leading external researchers. 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 2017-18 were:

- JENNIFER CHUN**, Sociology
- GIRISH DASWANI**, Anthropology
- MARLENE GOLDMAN**, English
- JAYEETA SHARMA**, Historical & Cultural Studies
- JEFFREY HUTCHINGS**, Dalhousie University (GUEST)
- JULIE LOCKWOOD**, Rutgers University (GUEST)
- MASSIMO PIGLIUCCI**, The City University of New York (GUEST)

Outreach



ATTENDANCE

~1500

NUMBER OF EVENT VOLUNTEERS

80

VOLUNTEER HOURS SPENT PLANNING

1400

SOCIAL MEDIA REACH

33,000+ IMPRESSIONS

SCIENCE RENDEZVOUS AT THE TORONTO ZOO

U of T Scarborough is continuing its long-standing partnership with the Toronto Zoo and Let's Talk Science with an aim to get kids excited about studying science. Faculty and students brought the lab to the zoo to inspire the next generation of scientists as

part of **Science Rendezvous**, a national festival of STEM (Science, Technology, Engineering and Mathematics) that takes place at more than 300 sites across Canada.



Featured speakers at this year's Science Rendezvous at the local event at the Toronto zoo included Professor **Maydianne Andrade**, Professor **Marc Cadotte** and Assistant Professor **Tod Thiele**, all from the Department of Biological Sciences.

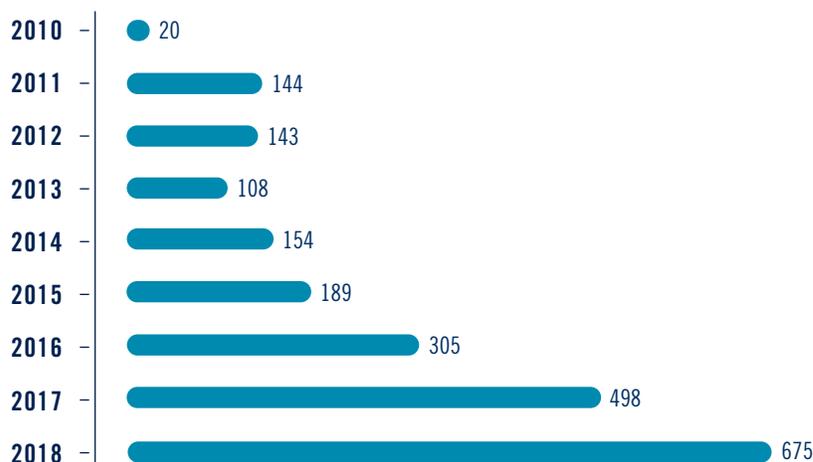


LET'S TALK SCIENCE

Let's Talk Science, an award-winning national charitable outreach organization, creates and delivers unique learning experiences that engage children and youth in science, technology, engineering and mathematics (STEM). Let's Talk Science at U of T Scarborough has been delivering free hands-on activities to youth in Scarborough and throughout Ontario since 2004, and has reached more than 30,000 students in the past 14 years.

More than 5700 youth participated in the 173 events and activities organized by the UTSC branch of Let's Talk Science in 2017-18, while the number of registered volunteers has grown 36% over the last two academic years.

Number of Registered Volunteers



The number of registered volunteers has grown

36%

in the last two years



More than

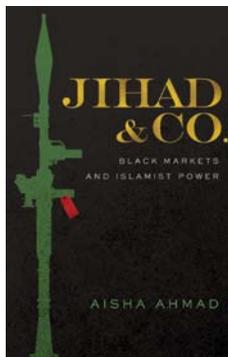
5700

youth participants in 2017-18



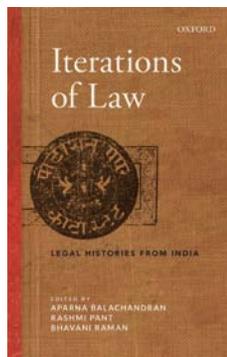
Books Published by U of T Scarborough Research Faculty

This is a non-comprehensive list of books published by our faculty members between January 2017 and June 2018. For full credit of covers, please see page 69.



Aisha Ahmad

Jihad & co.: Black markets and Islamist power



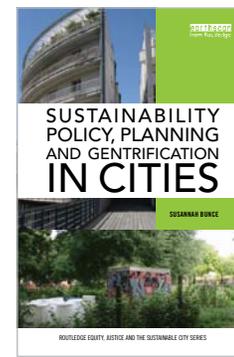
Aparna Balachandran, Rashmi Pant & **Bhavani Raman** (Eds.)

Iterations of law: Legal histories from India



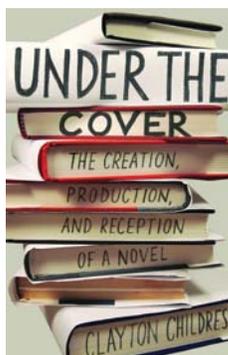
Sandford Borins & Beth Herst

Negotiating business narratives: Fables of the information technology, automobile manufacturing, and financial trading industries



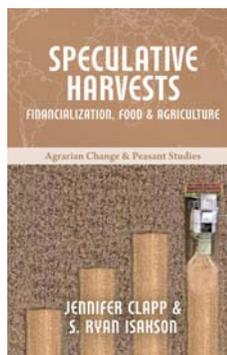
Susannah Bunce

Sustainability policy, planning and gentrification in cities



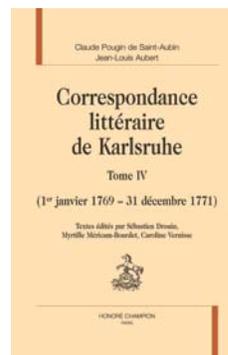
Clayton Childress

Under the cover: The creation, production, and reception of a novel



Jennifer Clapp & **S. Ryan Isakson**

Speculative harvests: Financialization, food, and agriculture



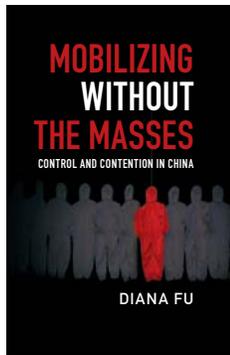
Sébastien Drouin, Myrtille Méricam-Bourdet & Caroline Vernisse (Eds.)

Correspondance littéraire de Karlsruhe, Vol. 4



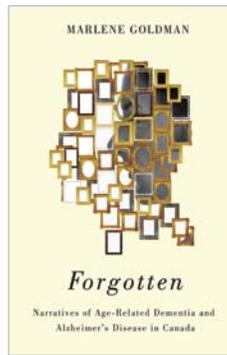
Barry Freeman

Staging strangers: Theatre and global ethics



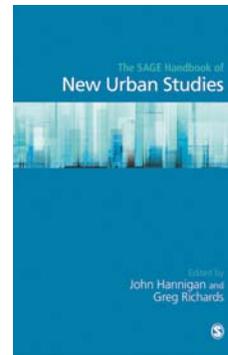
Diana Fu

Mobilizing without the masses: Control and contention in China



Marlene Goldman

Forgotten: Narratives of dementia and Alzheimer's disease in Canada



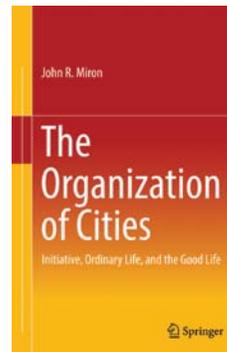
John Hannigan & Greg Richards (Eds.)

The SAGE handbook of new urban studies



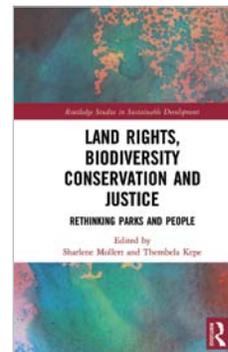
Bruce Kidd & Cesar R. Torres (Eds.)

Historicizing the Pan-American Games



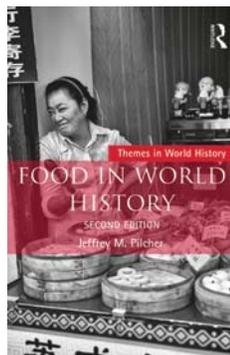
John R. Miron

The organization of cities: Initiative, ordinary life, and the good life



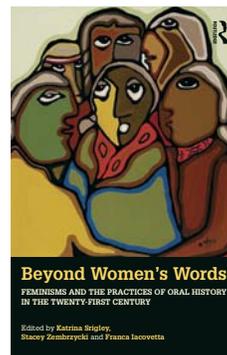
Sharlene Mollett & Thembe Kepe (Eds.)

Land rights, biodiversity conservation and justice: Rethinking parks and people



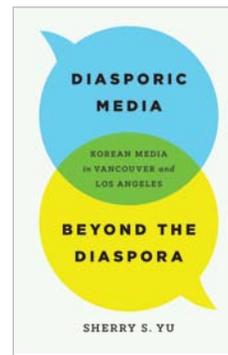
Jeffrey M. Pilcher

Food in world history: Second edition



Katrina Grigley, Stacey Zembrzycki & Franca Iacovetta (Eds.)

Beyond women's words: Feminisms and the practices of oral history in the twenty-first century



Sherry S. Yu

Diasporic media beyond the diaspora: Korean media in Vancouver and Los Angeles

Research Funding

BY Research Faculty

Data source: University of Toronto Research Information System
Award Report, prorated, Grant Year **April 1, 2017 – March 31, 2018**.

Report generated on July 9, 2018. **This is a non-comprehensive list.**

<u>FACULTY</u>	<u>DEPARTMENT</u>	<u>SPONSOR</u>	<u>PROGRAM</u>	<u>PROJECT TITLE</u>	<u>AWARDED</u>
Aggarwal, Pankaj	Management	Social Sciences & Humanities Research Council (SSHRC)	Insight Grant	Tradeoffs and product flaws: Applying social norms to anthropomorphized products	\$15,228.00
Ahmad, Aisha	Political Science	Norwegian University of Life Sciences	Norwegian Research Council Subgrant	The Jihadist war economies project	\$61,541.00
Ambuehl, Sandro	Management	Connaught Fund	New Researcher Award	Incentives for complex transactions - Bridging economics and ethics	\$17,500.00
Andrade, Maydianne	Biological Sciences	Natural Sciences & Engineering Research Council (NSERC)	Discovery Grant	Examining links between behaviour, plasticity and diversification under environmental heterogeneity using broadly distributed spiders	\$33,000.00
Aretakis, Stefanos	Computer & Mathematical Sciences	Connaught Fund	New Researcher Award	Mathematical problems in general relativity	\$5,000.00
		NSERC	Discovery Grant	Mathematical problems in general relativity	\$30,000.00
Arhonditsis, George	Physical & Environmental Sciences	Environment Canada	Great Lakes University Research Fund	Eutrophication risk assessment with process-based modelling and evolutionary algorithms in the Bay of Quinte AOC	\$60,000.00
		Environment Canada	Great Lakes University Research Fund	Determination of the best management practices in the Napanee River watershed	\$60,000.00
		Environment Canada	Great Lakes University Research Fund	Integrated modelling to assess phosphorus best management practices in Hamilton Harbour	\$60,000.00
		Environment Canada	Great Lakes University Research Fund	Eutrophication risk assessment and adaptive management implementation in the Hamilton Harbour AOC: Elucidating the role of internal nutrient recycling	\$68,000.00
		Environment Canada	Great Lakes University Research Fund	Modelling nutrient exports and dynamics including internal nutrient loading in Lake Erie	\$50,000.00
		Mitacs	Elevate (PDF)	Guiding delisting decisions in the Great Lakes area: Development of a Bayesian risk assessment methodology	\$23,958.34
		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	\$50,020.99
Armstrong, Blair	Psychology	NSERC	Discovery Grant	Toward a universal theory and model of word comprehension	\$26,000.00
Arruda Carvalho, Maithe	Psychology	Brain & Behavior Research Foundation	NARSAD Young Investigator Award	Circuit maturation and susceptibility to depression	\$2,612.82

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Arruda Carvalho, Maithe	Psychology	Canada Foundation for Innovation (CFI)	Infrastructure Operating Fund (IOF)	Maturation of sensitive circuits underlying early life stress	\$10,983.05
		CFI	John R. Evans Leaders Fund	Maturation of sensitive circuits underlying early life stress	\$60,000.00
		Ministry of Research, Innovation and Science	Small Infrastructure Fund	Maturation of sensitive circuits underlying early life stress	\$60,000.00
		NSERC	Discovery Grant	Maturation of circuits underlying learning and memory	\$33,000.00
		NSERC	Research Tools & Instruments - Category 1	Circuit basis of decision making across the lifespan	\$9,354.62
Averbakh, Igor	Management	NSERC	Discovery Grant	Nonclassical discrete optimization problems	\$21,000.00
Birn, Anne-Emanuelle	Political Science	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	Living on the edges: Cultural landscapes in the Hellenistic and Roman eastern Nile Delta	\$5,116.67
Boonstra, Rudy	Biological Sciences	NSERC	Discovery Grant - Northern Research Supplement	The role of stress in natural populations	\$15,000.00
		NSERC	Discovery Grant	The role of stress in natural populations	\$51,000.00
		Office of Naval Research	Research	Quantifying stress in marine mammals: Measuring biologically active cortisol in cetaceans and pinnipeds	\$3,459.73
Borins, Sandford	Management	SSHRC	Insight Grant	Extending the reach of a methodology for studying narratives about politics and government	\$18,148.00
			University of Toronto Excellence Award - SSH	Extending the reach of a methodology for studying narratives about politics and government	\$6,000.00
Bowen, William	Arts, Culture & Media	SSHRC	Aid to Scholarly Journals	Renaissance and reformation / renaissance et réforme	\$29,347.86
Brown, Hilary Kathryn	Anthropology / Interdisciplinary Centre for Health & Society	CIHR	Project Scheme Grant	Chronic medical conditions and perinatal mental illness	\$76,500.00
		CIHR	Request for Applications (RFA) Operating Grant	Infants born to women with disabilities: Health and health care	\$4,167.00
		Connaught Fund	New Researcher Award	Maternal diabetes and perinatal mental illness: A population-based cohort study	\$17,500.00
		National Institutes of Health (U.S.)	Operating Grant-R01	Pregnancy in women with disabilities: Using novel methods to characterize risk	\$114,598.56
		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	\$7,495.50

Research Funding

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Brown, Ian	Biological Sciences	CFI	IOF-LEF	Centre for Neurobiology of Stress (CNS)	\$36,376.50
		NSERC	Discovery Grant	Heat shock proteins in the nervous system	\$15,000.00
Buchweitz, Ragnar-Olaf	Computer & Mathematical Sciences	NSERC	Discovery Grant	Applications of homological algebra in algebra, geometry, and physics	\$43,000.00
Buckley, Michelle	Human Geography	SSHRC	Partnership Development Grant	Mapping the livelihoods of urbanization: Construction migration and household economies in Uttar Pradesh	\$3,206.43
Burchell, Kenzie	Arts, Culture & Media	SSHRC	Insight Development Grant	Exploiting the limits of media power: ISIS censorship, surveillance and spectacle	\$11,703.33
Cadotte, Marc W.	Biological Sciences	Ministry of Research, Innovation and Science	Early Researcher Award	The role of species in maintaining ecosystem function in urban landscapes	\$20,595.97
		NSERC	Discovery Grant	Biodiversity and the delivery of ecosystem services in novel landscapes	\$37,000.00
Cant, Jonathan S.	Psychology	NSERC	Discovery Grant	The neural substrates of object ensemble processing in the human brain	\$9,666.67
			University of Toronto Excellence Award - NSE	Probing the link between mood, attentional scope, and scene perception	\$4,875.00
Cen, Ling	Management	SSHRC	Insight Grant	Do countries matter for information diffusion in financial markets? Evidence from global supply-chain networks	\$8,993.00
Chan, Leslie	Centre for Critical Development Studies	International Development Research	Science & Innovation - Information and Network	Catalysing open and collaborative research to address development challenges	\$108,744.22
Chandra, Ambarish	Management	SSHRC	Insight Grant	A comprehensive account of price discrimination: New evidence from the airline industry	\$9,950.00
Charise, Andrea	English / Interdisciplinary Centre for Health & Society	Connaught Fund	New Researcher Award	Novel remedies: Literature, health, and the creative recovery of the humanities	\$5,000.00
Chen, Li	Historical and Cultural Studies	SSHRC	UT Research Completion Award (SSHRC)	Confucian literati as jurists: Power, knowledge and legal culture in late imperial China	\$6,500.00
Childress, Christopher Clayton	Sociology	SSHRC	Insight Development Grant	Diversity, the Booker Prize, and long term literary acclaim	\$32,054.33
Chun, Jennifer J.	Sociology	SSHRC	Insight Grant	Protesting publics in South Korea	\$23,718.00
		University of California	Ford - Subgrant	Informal worker organizing in domestic work and construction: Global comparative study	\$1,687.37
Cire, Andre Augusto	Management	Connaught Fund	New Researcher Award	Decision analytics for home healthcare	\$3,900.00
		NSERC	Discovery Grant	Optimization with decision diagrams: Theory and applications	\$24,000.00

<u>FACULTY</u>	<u>DEPARTMENT</u>	<u>SPONSOR</u>	<u>PROGRAM</u>	<u>PROJECT TITLE</u>	<u>AWARDED</u>
Cire, Andre Augusto	Management	NSERC	Engage Grant	Data analytics for ore blending schedules	\$16,666.67
Cochrane, Christopher Brian	Political Science	SSHRC	Insight Grant	Ideology, institutions, and the evolution of Canadian parliamentary behaviour, 1867-2016	\$26,856.00
Connelly, Brian Samuel	Management	Ministry of Research, Innovation and Science	Early Researcher Award Grant	Broadening the horizons of personality: The Scarborough multi-rater personality project (SMURPP)	\$5,133.34
		SSHRC	Insight Grant	Lying, boasting, self-exalting: Using observer reports of personality to identify and remedy applicant faking	\$11,500.00
Dewar, Genevieve	Anthropology	SSHRC	Insight Grant	Human landscape use during MIS 3 and MIS 2 in southern Africa	\$50,251.00
Dittrich, Maria B.	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	\$73,500.00
				Internal nutrient loading in Lake of the Woods and contribution to harmful algal blooms and cyanobacteria	\$30,000.00
		Mitacs	Elevate (PDF)	Towards a sustainable antibiofilm technology based on natural materials	\$38,461.54
				Development of an integrated modelling framework for eutrophication risk assessment and adaptive management implementation	\$30,000.00
		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	\$23,392.14
Donaldson, D. James	Physical & Environmental Sciences	NSERC	Discovery Grant	Atmospheric and interfacial reaction dynamics	\$43,000.00
Drouin, Sebastien	Centre for French and Linguistics	SSHRC	Insight Grant	Correspondances de journalistes ii: circulation du livre et de l'information littéraire dans l'Europe des premières lumières	\$18,898.00
Ekers, Mike	Human Geography	Connaught Fund	New Researcher Award	Financializing forests in British Columbia: Land, governance and the ecological fix	\$5,000.00
		SSHRC	Insight Grant	Financiers in the forests: On fixes, colonial property regimes and resistance	\$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

Research Funding

<u>FACULTY</u>	<u>DEPARTMENT</u>	<u>SPONSOR</u>	<u>PROGRAM</u>	<u>PROJECT TITLE</u>	<u>AWARDED</u>
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	Clean Air Partnership	Metcalf Foundation, Bloor Annex BIA, Korea Town BIA	Economic impact study for the Bloor Street West bike lane pilot project	\$5,600.00
		Concordia University	SSHRC PDG Subgrant	The datamobile partnership: An open platform for spatialized data collection and analysis	\$6,000.00
		Metrolinx	Research Agreement	Benchmarking the health and public transit connection in the GTHA: An analysis of survey micro-data across time and space	\$7,933.34
				Planning for transit equity in the GTHA: Quantifying the accessibility-activity participation relationship for low-income households	\$12,320.00
		Ministry of Research, Innovation and Science	Early Researcher Award	Accessibility and participation: The role of transportation in activity making	\$94,030.31
		SSHRC	Syrian Refugee Arrival, Resettlement & Integration	The transportation barriers to refugee participation and settlement in Durham region	\$8,245.67
Fleet, David James	Computer & Mathematical Sciences	Canadian Institute for Advanced Research	Operating Grant	CIFAR fellowship for teaching release	\$5,000.00
		Canadian Institute for Advanced Research	Personnel Award (Fellowship)	CIFAR annual research support	\$15,750.00
		Connaught Fund	Innovation Award	Advanced algorithms to discover protein structures for drug design	\$52,500.00
		NSERC	Discovery Grant	Looking at people and large-scale vision	\$73,000.00
		NSERC	Engage Grants (EG) Program	Video-based face verification for biometrics	\$4,166.67
Flynn, Alexandra	Human Geography	SSHRC	Insight Development Grant	Indigenous-municipal consultation in local planning processes	\$20,400.00
			University of Toronto Excellence Award - SSH	Indigenous-municipal consultation in local planning processes	\$6,000.00
Ford, Brett Quaid	Psychology	Connaught Fund	New Researcher Award	Can emotion regulation counteract the harmful effects of stress exposure? The role of reappraisal in protecting individual's emotional and physiological outcomes	\$11,666.66
		SSHRC	Insight Grant	When is emotion regulation adaptive versus maladaptive? A multi-method examination	\$14,126.00
Franco, April	Management	SSHRC	Insight Grant	The effects of employee mobility on entrepreneurial ventures, employment growth and regional prosperity	\$21,425.00

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Frazer, Garth	Management	The London School of Economics	IGC Subgrant	Unpacking the impact of regional integration in the East African community	\$17,635.59
Friedlander, John	Computer & Mathematical Sciences	NSERC	Discovery Grant	Research in number theory	\$19,000.00
Fu, Diana Xuan	Political Science	Connaught Fund	New Researcher Award	Beyond half the sky: Explaining China's new wave feminist movement	\$17,500.00
Fulthorpe, Roberta	Physical & Environmental Sciences	Mitacs	Globalink	Characterization of endophytes with potential to enhance phytoremediation of hydrocarbon contaminated soils	\$8,461.54
		NSERC	Discovery Grant	Catabolic capabilities of endophytic bacteria	\$34,000.00
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 Grant	Contemporary rock-hewn church excavation in Ethiopia	\$39,146.50
		SSHRC	Insight Grant	Text as image, image as text: Charter integrity and topic modelling	\$38,926.00
Goghari, Vina	Psychology	CIHR	New Investigator Award	Facial emotion recognition and temporal lobe abnormalities associated with the genetic vulnerability for schizophrenia: A structural and functional neuroimaging family study	\$55,000.00
		NSERC	Discovery Grant	Dissociating proactive and reactive control processes	\$39,469.62
Goldman, Marlene Beth	English	SSHRC	Insight Grant	Forgotten: Cultural discourses of age-related dementia and Alzheimer's disease	\$13,955.50
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	\$41,771.40
Gough, William	Physical & Environmental Sciences	Aboriginal Affairs & Northern Development Canada	Arctic Environmental Strategy Contaminants Program	The state of Canadian winter roads south of the 60th parallel: Current conditions, adaptive opportunities and projected season length in a changing climate	\$7,297.82
		Aboriginal Affairs & Northern Development Canada	Arctic Environmental Strategy Contaminants Program	The Canadian winter roads: Current conditions, adaptive opportunities in a changing climate	\$7,666.67
		Aboriginal Affairs & Northern Development Canada	Northern Scientific Training Program (Operating)	Community research in eastern James Bay	\$3,700.00
		Carleton University	SSHRC IDG Subgrant	Learning from Inuit knowledge: Nunavik and Nunavut perspectives on the cumulative impacts of environmental change in eastern Hudson Bay	\$15,128.54
		Mitacs	Elevate (PDF)	Towards the development of a Bayesian prognostic tool for air pollution in Ontario	\$25,384.61

Research Funding

<u>FACULTY</u>	<u>DEPARTMENT</u>	<u>SPONSOR</u>	<u>PROGRAM</u>	<u>PROJECT TITLE</u>	<u>AWARDED</u>
Gough, William	Physical & Environmental Sciences	NSERC	Discovery Grant	Climate change in the Eastern Arctic	\$21,800.00
		NCE: ArcticNet	Operating Grant	Community vulnerability, resilience and adaptation to climate change in the Canadian Arctic	\$16,000.00
Hadzilacos, Vassos	Computer & Mathematical Sciences	NSERC	Discovery Grant	Synchronization and fault tolerance in distributed computing	\$29,000.00
Han, Ju Hui	Human Geography	Max Planck Institute for the Study	Operating Grant	Urban aspirations in Seoul: Religion and megacities in comparative studies	\$10,645.84
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	\$14,834.00
Harrison, Rene	Biological Sciences	Canadian Space Agency	Operating Grant	Using simulated microgravity to understand bone loss and develop countermeasures in space	\$91,300.00
		CIHR	Open Operating Grant	Subversion of host epithelial cell processes by chlamydia infection	\$125,547.00
		NSERC	Discovery Grant	Microtubule organizing centres in osteoclasts	\$56,288.00
Haslhofer, Robert	Computer & Mathematical Sciences	Connaught Fund	New Researcher Award	Mean curvature flow and Willmore flow	\$5,000.00
		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	Subgrant, Riksbankens Jubileumsfond	Linguistic and extra-linguistic parameters for early detection of cognitive impairment	\$9,305.74
			Subgrant, Swedish Research Council	The advantage of country comparisons - Towards a new method for estimating language effects in cross-cultural surveys	\$8,126.79
Hoffmann, Matthew	Political Science	SSHRC	Insight Grant	Transformative policy pathways toward decarbonization	\$35,812.50
Hsiung, Ping-Chun	Sociology	SSHRC	Insight Grant	The politics of investigative research during China's Great Leap Forward (1958-62)	\$18,746.00
Hubner, Karolina	Philosophy	SSHRC	Insight Grant	Spinoza on being	\$25,752.00
Hunter, Mark	Human Geography	SSHRC	Insight Grant	'Parasites': A social geography of heroin, estrangement, and gendered sociality in South Africa	\$18,369.00
Hussain, Waheed	Philosophy	SSHRC	Insight Grant	Embracing the invisible hand: Corporations, market governance and human freedom	\$8,826.00
Hutcherson, Cendri Anne Claire	Psychology	California Institute of Technology	National Institutes of Health Subgrant	Social inference and prosocial decisions	\$42,979.10

<u>FACULTY</u>	<u>DEPARTMENT</u>	<u>SPONSOR</u>	<u>PROGRAM</u>	<u>PROJECT TITLE</u>	<u>AWARDED</u>
Hutcherson, Cendri Anne Claire	Psychology	Connaught Fund	New Researcher Award	Tracking the dynamics of attention and inhibition during dietary self-control	\$17,125.00
		NSERC	Discovery Grant	Testing the implications of a dynamic, neurally-informed computational model of valuation, decision making, and self-control	\$28,000.00
		SSHRC	Insight Grant	Why are people generous?: New model-based approaches to long-standing questions	\$46,010.00
Inbar, Yoel	Psychology	SSHRC	Insight Development Grant	Moral language across the political spectrum	\$17,083.33
		SSHRC	Insight Grant	Moralized attitudes towards genetically engineered food	\$16,790.00
Inzlicht, Michael	Psychology	NSERC	Discovery Grant	Is negative affect necessary for cognitive control? Toward an affect alarm framework of control	\$33,386.00
		SSHRC	Insight Development Grant	Predicting population-level self-control from Facebook: Lessons about self-control from big data	\$27,625.00
			Insight Grant	What is ego depletion? Testing the process model of self-control failure	\$65,113.00
Isaac, Marney Elizabeth	Physical & Environmental Sciences / Centre for Critical Development Studies	CFI	IOF	Carbon and nitrogen analysis in agroecology	\$2,045.26
		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	\$7,236.00
Isakson, Ryan	Human Geography / Centre for Critical Development Studies	SSHRC	Insight Development Grant	Weather derivatives, farmer vulnerability, and the financialization of agricultural risk management in Guatemala	\$34,230.00
			University of Toronto Excellence Award - SSH	Index-based agricultural insurance and the environmental vulnerability of small-scale farmers in northern Guatemala	\$6,000.00
Ito, Rutsuko	Psychology	NSERC	Discovery Grant	Delineating cortico-limbic-striatal circuits in reward and punishment: Segregation and integration	\$31,000.00
Izmaylov, Artur	Physical & Environmental Sciences	Ministry of Research, Innovation and Science	Early Researcher Award	Development of new computational methods for modeling chemical reactions on metallic surfaces	\$12,160.82
		NSERC	Discovery Grant	Quantum dynamical methods for modelling photoinduced processes in molecules	\$35,000.00
			Engage Grant	Adiabatic quantum computing of molecular electronic structure on the 2000q d-wave quantum computer	\$16,666.67
Jeffrey, Lisa	Computer & Mathematical Sciences	NSERC	Discovery Grant	Symplectic geometry	\$27,000.00

Research Funding

<u>FACULTY</u>	<u>DEPARTMENT</u>	<u>SPONSOR</u>	<u>PROGRAM</u>	<u>PROJECT TITLE</u>	<u>AWARDED</u>
Johnson, F. Ryan	Computer & Mathematical Sciences	Hewlett-Packard Company	HP Labs Innovation Research Program	Collaboration agreement with HP Labs Systems Research Center	\$21,904.00
Kang, Yoon Jung	Centre for French and Linguistics	Academy of Korean Studies	Korean Studies Grant	Acquisition of Korean vowels in English learners of Korean	\$6,431.87
		SSHRC	Insight Grant	Bilingualism, perceptual drift, and regularization of loanwords	\$15,526.50
		SSHRC	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	CFI	IOF	Tissue culture facility of bioanalytical sensors	\$4,677.73
			John R. Evans Leaders Fund	Tissue culture facility of bioanalytical sensors	\$44,379.70
		Ministry of Research, Innovation and Science	Research Infrastructure Fund	Tissue culture facility of bioanalytical sensors	\$44,379.70
		NSERC	Discovery Grant	Bioelectrochemistry of surfaces and interfaces	\$45,000.00
Khapko, Mariana	Management	Connaught Fund	New Researcher Award	Markets of tomorrow: Blockchain trade settlement and liquidity	\$5,000.00
Kingston, Paul	Political Science	Mitacs	Globalink	Bread, freedom and national dignity? A political economy of youth	\$4,000.00
		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 / Political Science	SSHRC	Connection Grant	Regenerating rural textile economies: The role of social networks and social capital in sheep farming	\$3,577.50
		SSHRC	Insight Development Grant	Transdisciplinary science policy interfaces in adaptation decision making	\$27,381.67
Kohn, Margaret	Political Science	SSHRC	Insight Grant	Spaces of civil disobedience: from Sanctuary to Occupy	\$8,460.00
Koudas, Nick	Computer & Mathematical Sciences	IBM Canada Ltd.	CAS Faculty Award	Efficient support for JSON in relational database systems	\$6,857.15
		NSERC	Collaborative R&D Grants (Operating)	An incremental data management system for big data analytics	\$8,324.00
		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	Development of an electrochemical sensor for monitoring drug binding	\$16,666.66
		Ontario Centres of Excellence	Voucher for Innovation and Productivity (VIP1)	Development of an electrochemical sensor for monitoring drug binding	\$14,583.33

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Kraatz, Heinz-Bernhard	Physical & Environmental Sciences	Ontario Genomics (f/OG Institute)	Pre-Commercialization and Business Development	Pathogen detection tool for beach water monitoring	\$28,571.43
		Queen's University	CFI/OIT Subgrant	A molecular approach to surface functionalization: From automotive to biomedical applications	\$215,160.85
			IOF Subgrant	A molecular approach to surface functionalization: From automotive to biomedical applications	\$9,221.15
			NSERC Strategic Grant (Subgrant)	Supported catalysts for sustainable water oxidation: Completing the cycle for generation of hydrogen from water	\$37,200.00
Krupa, Chris	Anthropology	SSHRC	Insight Development Grant	Accounting for violence in the island of peace: An anthropological history of Cold War Ecuador	\$4,149.25
Landolt, Patricia	Sociology	SSHRC	Partnership Development Grant	Precarious noncitizenship through the life course	\$3,627.67
		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
Lee, Andy	Psychology	NSERC	Discovery Grant	Investigating the role of the medial temporal lobe in memory	\$56,159.00
Lovejoy, Nathan Richard	Biological Sciences	CFI	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	\$35,944.70
		NSERC	Discovery Grant	Phylogenetics, biogeography, and evolution of fishes	\$44,000.00
		University of Central Florida	NSF Sub-award	Aquatic faunal survey of the Lower Amazon	\$4,419.12
Lowman, Julian	Physical & Environmental Sciences	NSERC	Discovery Grant	Planetary mantle dynamics	\$30,000.00
Maglio III, Sam James	Management	SSHRC	Insight Development Grant	The strength and resilience of intuitive attitudes	\$29,503.34
Mandrak, Nicholas	Biological Sciences	CFI	IOF	Biodiversity and conservation of freshwater fishes laboratory	\$4,800.00
		CFI	John R. Evans Leaders Fund	Biodiversity and conservation of freshwater fishes laboratory	\$3,809.52
		Fisheries & Oceans	Operating Grant	Developing a freshwater species at risk research network in the Great Lakes-St. Lawrence River basin	\$15,084.55
		McGill University	NSERC Strategic Grant (Subgrant)	Assessing biological invasion risk under climate change scenarios in the Great Lakes basin	\$37,300.31
		Ministry of Natural Resources and Forestry	Invasive Species Centre Partnership Fund	Inventory and habitat modelling of pugnose shiner in the Lake St. Clair watershed	\$30,125.70

Research Funding

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Mandrak, Nicholas	Biological Sciences	Ministry of Research, Innovation and Science	Small Infrastructure Fund	Biodiversity and conservation of freshwater fishes laboratory	\$3,809.52
		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	\$39,375.00
Mason, Andrew	Biological Sciences	NSERC	Discovery Grant	Complex sensory signals: Function and mechanism	\$40,000.00
Maurice, Alice	English	SSHRC	Insight Grant	Making faces: Makeup, identity, and the changing face of American cinema	\$15,237.00
McCarthy, Julie	Management	SSHRC	Insight Grant	Personnel selection through the lens of job applicants: Leveraging test reactions	\$29,474.00
McElheran, Kristina S.	Management	SSHRC	Insight Development Grant	Entrepreneurial firms in the Digital Age	\$28,920.83
		SSHRC	Insight Grant	Data and data-driven decision making in the Digital Age: Economic, organizational, and individual implications	\$17,071.00
McGowan, Patrick	Biological Sciences	Ministry of Research, Innovation and Science	Early Researcher Award	The role of stress in the biology of gene-environment interactions	\$22,105.62
		NSERC	Discovery Grant	Perinatal stress and brain function	\$15,500.00
		U.S. Department of Defense	Gulf War Illness Res Program- Investigator-Initiate	Epigenetic mediation of endocrine and immune response in an animal model of Gulf War illness	\$84,798.91
McLeod, Kenneth	Arts, Culture & Media	SSHRC	Insight Grant	Driving identity: Popular music and automobile culture	\$16,578.00
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	NSERC	Discovery Grant	Hydrobiogeochemistry of contaminant transformation and transport	\$33,000.00
		University of Minnesota	Non-Federal Sub-award Minnesota Pollution Control A	Identifying causes of high mercury in fish (Subcontract)	\$13,541.04
Mollett, Sharlene	Human Geography	SSHRC	Insight Development Grant	Gender and the making of residential tourism space in Panama	\$25,261.67
Molloy, Michael	Computer & Mathematical Sciences	NSERC	Discovery Grant	Probabilistic graph theory and random constraint satisfaction problems	\$62,000.00
Molnár, Péter Kalman	Biological Sciences	CFI	IOF	Laboratory of quantitative global change ecology	\$6,315.79

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Molnár, Péter Kalman	Biological Sciences	CFI	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	\$31,400.00
		Ministry of Research, Innovation and Science	Small Infrastructure Fund	Laboratory of quantitative global change ecology	\$15,804.88
		NSERC	Discovery Grant	Bioenergetic approaches to understanding and forecasting ecological and epidemiological impacts of climate change	\$33,000.00
		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
Monahan, Philip Joseph	Centre for French and Linguistics	NSERC	Discovery Grant	Predicting speech: Cortical oscillations and perceptual dynamics	\$23,000.00
		SSHRC	Insight Development Grant	Exploring speech sound representations: Features and categories in monolingual and bilingual speakers	\$5,866.33
		University of Toronto Excellence Award – SSH	Exploring speech sound representations: Features and categories in monolingual and bilingual speakers	\$6,000.00	
Mortensen, Lena	Anthropology	Simon Fraser University	SSHRC GRF funds	Intellectual property issues in cultural heritage	\$1,750.00
Narayana-reddy, Rajyashree	Human Geography	SSHRC	Insight Grant	Fixing unruly flows: Infrastructures of wastewater in Bangalore, India	\$8,404.00
Nash, Joanne	Biological Sciences	NSERC	Discovery Grant	PSD-MAGUKs in the striatum	\$36,000.00
		NSERC	Discovery Grant	Understanding the molecular mechanisms underlying motor control	\$36,000.00
		The Michael J. Fox Foundation	Operating Grant	Further validation of SIRT3 as a disease modifying agent in Parkinson's disease	\$63,808.49
Nefsky, A. Julia	Philosophy	SSHRC	Insight Grant	Individual morality and collective impact	\$18,391.00
Nestor, Adrian R.	Psychology	NSERC	Discovery Grant	A neurocomputational investigation of human face processing	\$31,000.00
Nieborg, David Bartzoon	Arts, Culture & Media	Connaught Fund	New Researcher Award	App studies: Exploring the political economy of mobile media platforms	\$4,625.00
		SSHRC	Connection Grant	The platformization of cultural production	\$1,525.46
		SSHRC	Partnership Engage Grant	Leveraging superdata's super data: Exploring content diversity in the app economy	\$2,054.00
Niemeier, Matthias	Psychology	NSERC	Discovery Grant	Neural and cognitive mechanisms of predictive coding and their interactions for perception and action	\$28,000.00

Research Funding

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Pekhimenko, Gennady	Computer & Mathematical Sciences	Huawei Technologies Co., Ltd	Collaboration Agreement	Software/hardware optimizations and compiler support for heterogeneous systems	\$4,581.24
Pilcher, Jeffrey	Historical and Cultural Studies	Connaught Fund	Cross-Divisional/ Cross-Cultural Seminars	City food: Lessons from people on the move	\$19,354.84
		SSHRC	Insight Grant	Tasting the global city: Multicultural histories of Toronto's cuisines	\$29,438.00
		SSHRC	University of Toronto Excellence Award – SSH	Tasting the global city: Multicultural histories of Toronto's cuisines	\$6,000.00
Reid, Stephen	Biological Sciences	NSERC	Discovery Grant	Respiratory control systems in amphibians	\$25,000.00
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
Richards, Blake	Biological Sciences	CFI	IOF	Towards an integrated picture of sensory learning in neural circuits	\$9,642.85
		Human Frontier Science Program	Young Investigators Grants	An integrated multi-level investigation of neural codes in sensory processing	\$106,911.35
		NSERC	Discovery Grant	Uncovering the neurobiology of combined supervised and unsupervised learning	\$29,000.00
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	Columbia University, New York	Subgrant	Statistical models of graph and relational data from probabilistic symmetries	\$132,249.00
		Ministry of Research, Innovation and Science	Early Researcher Award	Next generation probabilistic programming for data science	\$2,857.15
		NSERC	Discovery Grant	Advancing probabilistic programming for machine learning and statistics	\$29,000.00
		The Royal Society	Newton International Fellowship	Newton Fellowship Alumni Fund	\$9,182.42
Ruocco, Anthony Charles	Psychology	CIHR	New Investigator Award	Isolating neurocognitive intermediate phenotypes in borderline personality disorder	\$60,000.00
		Ministry of Research, Innovation and Science	Early Research Award	Neural systems dysfunctions underlying impulse control in borderline personality disorder	\$31,111.12
Salem, Rania Hatem	Sociology	Qatar University	National Priorities Research Program	Women's labour force activity in the Arab region: Measurement, determinants and consequences	\$1,447.49
Saljoughi, Sara	English	Connaught Fund	New Researcher Award	Burning visions: The counter-cinema of the Iranian New Wave	\$5,000.00

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Saljoughi, Sara	English	SSHRC	Insight Grant	Burning visions: The counter-cinema of the Iranian New Wave	\$15,012.00
Schertzer, Robert Stephen	Political Science	Connaught Fund	New Researcher Award	The politics of national identity and diversity	\$5,000.00
		SSHRC	Insight Development Grant	Beyond counting: Describing and explaining ethno-national representation in political institutions across the globe	\$25,758.33
Schillaci, Michael	Anthropology	SSHRC	Insight Grant	A study of the biological affiliations of the Sopris and Apishapa phase cultures of the American southwest	\$18,784.00
Schmuckler, Mark	Psychology	NSERC	Discovery Grant	Perceptual motor coupling in obvious and non-obvious domains / tonality and melody in music cognition	\$24,000.00
Schroeder, Bianca	Computer & Mathematical Sciences	Ministry of Research, Innovation and Science	Early Researcher Award	Reliable and energy-efficient next-generation data centres	\$20,475.68
		NSERC	Discovery Grant	Reliable and energy-efficient next-generation data centres	\$18,000.00
Seager, William Edward	Philosophy	Canadian Journal of Philosophy	Research Stipend	Radical theories of consciousness	\$1,666.67
Sedivy, Sonia	Department of Philosophy	SSHRC	Insight Development Grant	Art, perception and history	\$6,461.54
Segal, Zindel	Psychology	National Institutes of Health (U.S.)	Operating Grant-RO1	Reducing residual depressive symptoms with web-based mindful mood balance	\$705,414.25
Selick, Paul	Computer & Mathematical Sciences	NSERC	Discovery Grant	Homotopy theory	\$13,000.00
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	\$13,644.00
		Western University	SSHRC IDG Subgrant	Place and politics: Neighbourhood effects and political behaviour in Canadian cities	\$3,240.21
Simpson, Andre	Physical & Environmental Sciences	Ministry of the Environment	Research Grants	Understanding microcystin levels in Ontario	\$23,333.33
		NSERC	Discovery Grant	Development of flow-based & magic angle spinning in-vivo NMR to understand environmental stress	\$68,000.00
		NSERC	Strategic Grants (Individual & Group) (operating)	A digital microfluidic-microcoil NMR discovery platform to elucidate, monitor and understand cumulative environmental stress	\$142,586.67
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	\$25,611.43
		NSERC	Discovery Accelerator Supplements	Molecular biogeochemistry of soil organic matter with environmental change	\$40,000.00

Research Funding

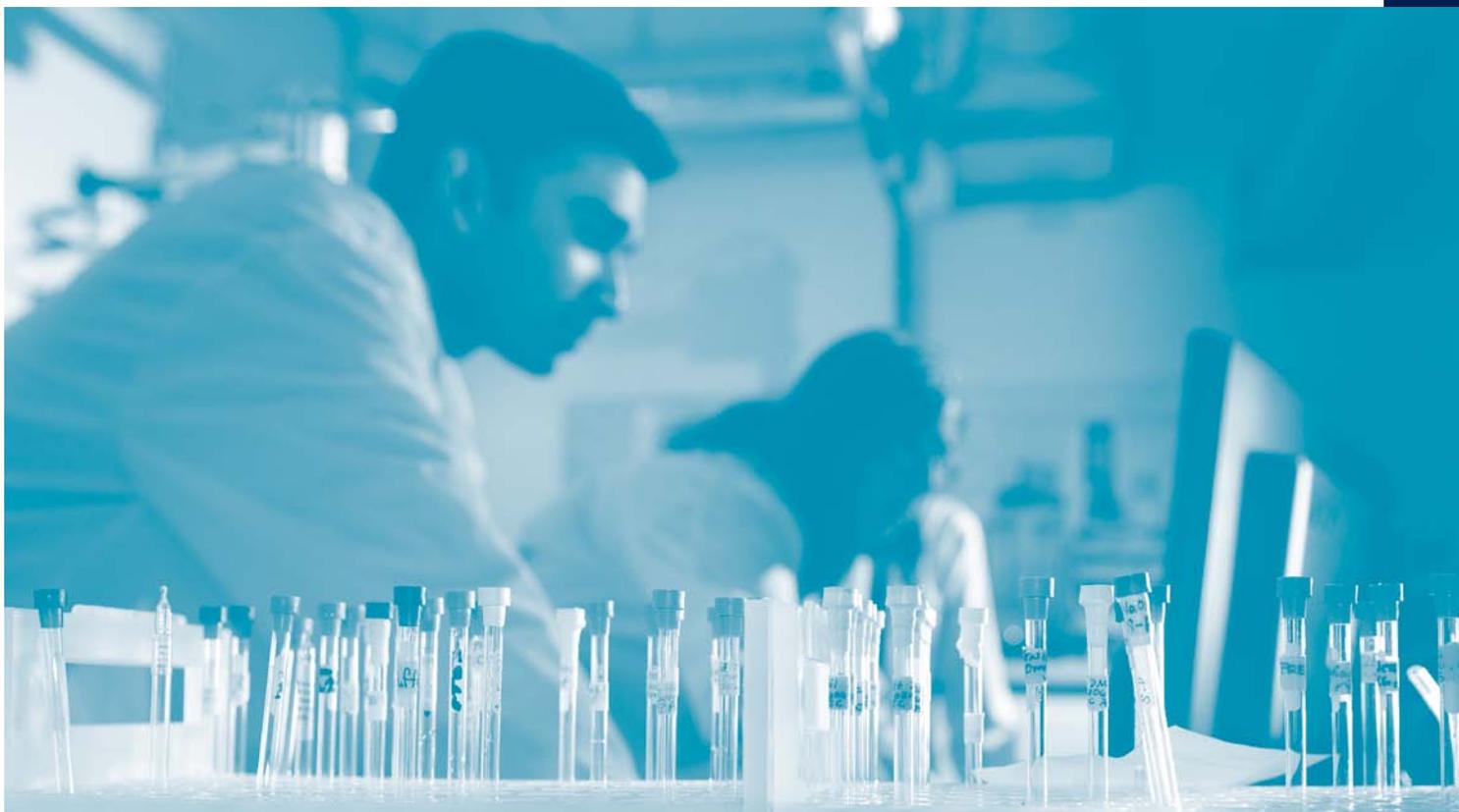
<u>FACULTY</u>	<u>DEPARTMENT</u>	<u>SPONSOR</u>	<u>PROGRAM</u>	<u>PROJECT TITLE</u>	<u>AWARDED</u>
Simpson, Myrna	Physical & Environmental Sciences	NSERC	Discovery Grant	Molecular biogeochemistry of soil organic matter with environmental change	\$50,000.00
		NCE: ArcticNet	Operating Grant	Water security and quality in a changing arctic	\$12,350.00
		University of Guelph	NSERC Strategic Program Subgrant	Understanding the mechanisms for soil ecosystem services from 'perennialized' annual cropping systems	\$39,000.00
Skogstad, Grace	Political Science	NCE: BiofuelNet	Operating Grant	Pathways to reducing policy uncertainty in sustainable biofuels governance	\$25,795.00
Sorensen, Andre	Human Geography	SSHRC	Insight Grant	Urbanization, planning and developmental states in comparative historical perspective	\$14,745.89
Stark, Andrew	Management	SSHRC	Insight Grant	Political capital in America	\$7,860.00
Sullan, Ruby May	Physical & Environmental Sciences	Canada Foundation for Innovation	John R. Evans Leaders Fund	Integrated atomic force microscopy (AFM)-optical microscopy facility for the nanoscale study of microbial biofilms	\$9,764.70
		Ministry of Research, Innovation and Science	Small Infrastructure Fund	Integrated atomic force microscopy (AFM)-optical microscopy facility for the nanoscale study of microbial biofilms	\$9,764.70
		NSERC	Discovery Grant	Molecular forces in microbial biofilms	\$27,000.00
			Research Tools & Instruments – Category 1	Dynamic light scattering instrument for biological chemistry	\$8,327.00
			University of Toronto Excellence Award – NSE	Mechanical stability of e. Coli biofilms during microcolony formation	\$4,875.00
Tanner, Julian	Sociology	Insight Grant	Subgrant	Youth and guns in Toronto	\$12,612.00
Teichroeb, Julie	Anthropology	Connaught Fund	New Researcher Award	The influence of resource quality and usurpability on vervet monkey foraging decisions	\$4,989.00
		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	\$40,000.00
		Mitacs	Accelerate Ontario	Definition of attributes of a TB vaccine critical to uptake, processing and presentation	\$30,000.00
		NSERC	Discovery Grant	Phagocytosis filamentous targets	\$36,000.00
Thiele, Tod	Biological Sciences	CFI	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	\$51,892.80
		Ministry of Research, Innovation and Science	Small Infrastructure Fund	Elucidating the structure and function of zebrafish sensorimotor circuits using optogenetic and behavioural approaches	\$51,892.80

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Thiele, Tod	Biological Sciences	NSERC	Discovery Grant	Dissecting the structure and function of vertebrate sensorimotor neural circuits using larval zebrafish	\$36,000.00
Tiozzo, Giulio	Computer & Mathematical Sciences	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	CFI	IOF	Spatially resolved biochemistry	\$4,864.86
			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	\$31,578.95
		CIHR	Open Operating Grant	Molecular mechanisms regulating B cell signalling and activation	\$120,896.00
		Hospital for Sick Children	CIHR Subgrant	Immuno-modulatory HIV-1 nanoparticles as a novel vaccine platform	\$50,527.45
		Ministry of Research, Innovation and Science	Research Infrastructure Fund	Spatially resolved biochemistry	\$31,578.95
		NSERC	Discovery Grant	The role of glycan-gatectin interactions in regulating B cell signalling and activations	\$33,000.00
Trougakos, John Peter	Management	SSHRC	Insight Grant	Why are we not taking our breaks? Examining predictors of employee work break choices	\$46,634.00
Tsuji, Leonard	Physical & Environmental Sciences / Interdisciplinary Centre for Health & Society	CIHR	Catalyst Grant	Indigenous approaches to wellness: Land-centred interventions in subarctic Canada	\$137,280.00
			Land-based approaches to wellness: The sharing-the-harvest initiative	\$150,000.00	
		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	\$78,532.00
			Partnership Development Grant	Decreasing the vulnerability of subarctic and arctic Aboriginal people to environmental change through an innovative decision-support tool	\$82,524.67
		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	\$8,387.39
Uliaszek, Amanda Ann	Psychology	SSHRC	Insight Development Grant	Bridging development and disturbance: A unified, transtheoretical approach to the study of identity	\$31,656.66
Valencia, Diana	Physical & Environmental Sciences	NSERC	Discovery Grant	Formation and evolution of super-Earths and sub-Neptune planets	\$19,000.00

Research Funding

<u>FACULTY</u>	<u>DEPARTMENT</u>	<u>SPONSOR</u>	<u>PROGRAM</u>	<u>PROJECT TITLE</u>	<u>AWARDED</u>
Vanlerberghe, Greg	Biological Sciences	NSERC	Discovery Grant	Alternative oxidase of plant mitochondria	\$40,000.00
Vernon, Karina Joan	English	SSHRC	Insight Grant	Black Canadian art and the aesthetics of spatial justice	\$4,912.00
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	Quantifying the effect of transient and permanent dietary transitions in the north on human exposure to persistent organic pollutants and mercury	\$4,600.00
		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	\$13,657.78
		Environment Canada	Research	New approaches for predicting and visualizing gas/particle partitioning of polycyclic aromatic compounds	\$30,000.00
		Mitacs	Elevate (PDF)	Integrated far- and near-field human exposure modelling for organic substances	\$29,615.38
		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
			Strategic Grants (Individual & Group) (operating)	A passive air sampler for precise, spatially distributed atmospheric mercury monitoring and source characterization	\$26,307.69
Way, Lucan Alan	Political Science	SSHRC	Connection Grant	1917: Culture, violence and political change in the 20th century – Conference at the University of Toronto	\$16,719.70
		SSHRC	Insight Grant	Revolutionary struggle and authoritarian durability after the Cold War	\$1,812.50
Wei, Jason	Management	SSHRC	Insight Grant	Trading behaviour of option investors	\$28,996.00
Weir, Jason Tyler	Biological Sciences	NSERC	Discovery Accelerator Supplements	The biogeographic drivers and genomic architecture of speciation in Amazonian birds	\$40,000.00
		NSERC	Discovery Grant	The biogeographic drivers and genomic architecture of speciation in Amazonian birds	\$37,000.00
Welch Jr., Kenneth Collins	Biological Sciences	Human Frontier Science Program	Operating Grant	Optimization of metabolic flux in the hummingbird: From enzymes to ecology	\$89,318.52
		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
		Ministry of the Environment	Research Grants	Water circulation in Georgian Bay	\$85,219.02
		NSERC	Discovery Accelerator Supplements	Transport and mixing of particles in stratified environmental flows	\$40,000.00

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Wells, Mathew	Physical & Environmental Sciences	NSERC	Discovery Grant	Transport and mixing of particles in stratified environmental flows	\$48,000.00
Wilson, Jessica Marie	Philosophy	SSHRC	Insight Grant	How metaphysical dependence works: A case study in metaphysical methodology	\$11,610.00
Zakzanis, Konstantine	Psychology	Lundbeck Denmark	Grant, Fellowship	On the nature of neurocognition in major depressive disorder	\$5,625.00
		Mitacs	Accelerate Ontario	UTSC/MHS/RREES inter-disciplinary assessment & Rehabilitation Centre for Excellence	\$28,125.00
		Mitacs	Accelerate Ontario	On the nature of neurocognitive dysfunction in depressive disorders Cognitive impairment secondary to depressive symptomatology and its relationship with functional impairment	\$16,666.67
Zhang, Xiaon	Physical & Environmental Sciences	CFI	IOF-LOF	Multidisciplinary laboratory for development of new generation MRI contrast agents for biomedical imaging	\$14,400.00
		NSERC	Discovery Grant	Next generation molecular probes for magnetic resonance sensing and imaging: Design, synthesis, evaluation and application	\$30,000.00
Zhao, Rongmin	Biological Sciences	NSERC	Discovery Grant	Role of molecular chaperone HSP90C in regulating Arabidopsis photosynthesis	\$26,000.00
Zweig, David	Management	SSHRC	Insight Grant	Successful psychopaths and targets of knowledge theft	\$8,406.00



Select Publications

BY Research Faculty

This list includes publications by U of T Scarborough research-stream faculty only, from **January 2017 to June 2018**. The list was compiled from the Scopus database and supplemented with select publications. **The list is non-comprehensive.**

JOURNAL ARTICLES (524)

Abdalla, M., Rudzicz, F., & **Hirst, G.** (2018). Rhetorical structure and Alzheimer's disease. *Aphasiology*, 32(1), 41-60.

Ahmadi, S., Ebralidze, I. I., She, Z., & **Kraatz, H.-B.** (2017). Electrochemical studies of tau protein-iron interactions—Potential implications for Alzheimer's disease. *Electrochimica Acta*, 236, 384-393.

Alber, N. A., Sivanesan, H., & **Vanlerberghe, G. C.** (2017). The occurrence and control of nitric oxide generation by the plant mitochondrial electron transport chain. *Plant Cell and Environment*, 40(7), 1074-1085.

Al-Labadi, L., Baskurt, Z., & **Evans, M.** (2018). Statistical reasoning: Choosing and checking the ingredients, inferences based on a measure of statistical evidence with some applications. *Entropy*, 20(4).

Alpert, P. A., Ciuraru, R., Rossignol, S., Passananti, M., Tinel, L., Perrier, S., . . . **Donaldson, D. J.**, & George, C. (2017). Fatty acid surfactant photochemistry results in new particle formation. *Scientific Reports*, 7(1).

Ambuehl, S., & Li, S. (2018). Belief updating and the demand for information. *Games and Economic Behavior*, 109, 21-39.

Amir, G., & **Virág, B.** (2017). Speed exponents of random walks on groups. *International Mathematics Research Notices*, 2017(9), 2567-2598.

Anderson, A., & Green, E. A. (2018). Personal bests as reference points. *Proceedings of the National Academy of Sciences of the United States of America*, 115(8), 1772-1776.

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Anderson, C. I., & **Gough, W. A.** (2017). Evolution of winter temperature in Toronto, Ontario, Canada: A case study of winters 2013/14 and 2014/15. *Journal of Climate*, 30(14), 5361-5376.

Andrianakis, I., Vernon, I., McCreesh, N., McKinley, T. J., Oakley, J. E., Nsubuga, R. N., **Goldstein, M.**, & White, R. G. (2017). History matching of a complex epidemiological model of human immunodeficiency virus transmission by using variance emulation. *Journal of the Royal Statistical Society. Series C: Applied Statistics*, 66(4), 717-740.

Angelopoulos, Y., **Aretakis, S.**, & Gajic, D. (2017). The trapping effect on degenerate horizons. *Annales Henri Poincaré*, 18(5), 1593-1633.

Angelopoulos, Y., **Aretakis, S.**, & Gajic, D. (2018). Late-time asymptotics for the wave equation on spherically symmetric, stationary spacetimes. *Advances in Mathematics*, 323, 529-621.

Arakawa, N., Aluwihare, L. I., **Simpson, A. J.**, Soong, R., Stephens, B. M., & Lane-Coplen, D. (2017). Carotenoids are the likely precursor of a significant fraction of marine dissolved organic matter. *Science Advances*, 3(9).

Archer, L., Ford, J. D., Pearce, T., Kowal, S., **Gough, W. A.**, & Allurur, M. (2017). Longitudinal assessment of climate vulnerability: A case study from the Canadian Arctic. *Sustainability Science*, 12(1), 15-29.

Armstrong, B. C., Dumay, N., Kim, W., & Pitt, M. A. (2017). Generalization from newly learned words reveals structural properties of the human reading system. *Journal of Experimental Psychology: General*, 146(2), 227-249.

Armstrong, B. C., Frost, R., & Christiansen, M. H. (2017). The long road of statistical learning research: Past, present and future. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 372(1711).

Arnillas, C. A., Tovar, C., **Cadotte, M. W.**, & Buytaert, W. (2017). From patches to richness: Assessing the potential impact of landscape transformation on biodiversity. *Ecosphere*, 8(11).

Arruda-Carvalho, M., Wu, W.-C., Cummings, K. A., & Clem, R. L. (2017). Optogenetic examination of prefrontal-amygdala synaptic development. *Journal of Neuroscience*, 37(11), 2976-2985.

Arseneau-Robar, T. J. M., Joyce, M. M., Stead, S. M., & **Teichroeb, J. A.** (2018). Proximity and grooming patterns reveal opposite-sex bonding in Rwenzori Angolan colobus monkeys (*Colobus angolensis ruwenzorii*). *Primates*, 59(3), 267-279.

Ashbrook, D. G., Hing, B., Michalovicz, L. T., Kelly, K. A., Miller, J. V., de Vega, W. C., . . . **McGowan, P. O.** (2018). Epigenetic impacts of stress priming of the neuroinflammatory response to sarin surrogate in mice: A model of Gulf War illness. *Journal of Neuroinflammation*, 15(1).

Auld, G., & **Renckens, S.** (2017). Rule-making feedbacks through intermediation and evaluation in transnational private governance. *Annals of the American Academy of Political and Social Science*, 670(1), 93-111.

Avlijaš, S., Ricciardi, A., & **Mandrak, N. E.** (2018). Eurasian tench (*tinca tinca*): The next Great Lakes invader. *Canadian Journal of Fisheries and Aquatic Sciences*, 75(2), 169-179.

Awonaike, B., Wang, C., Goss, K.-U., & **Wania, F.** (2017). Quantifying the equilibrium partitioning of substituted polycyclic aromatic hydrocarbons in aerosols and clouds using COSMOtherm. *Environmental Science. Processes & Impacts*, 19(3), 288-299.

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Bagby, R. M., & Widiger, T. A. (2018). Five Factor Model personality disorder scales: An introduction to a special section on assessment of maladaptive variants of the Five Factor Model. *Psychological Assessment*, 30(1), 1-9.

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Bargaz, A., Noyce, G. L., **Fulthorpe, R.**, Carlsson, G., Furze, J. R., Jensen, E. S., . . . **Isaac, M. E.** (2017). Species interactions enhance root allocation, microbial diversity and P acquisition in intercropped wheat and soybean under P deficiency. *Applied Soil Ecology*, 120, 179-188.

- Barrera-Guzmán, A. O., Aleixo, A., Shawkey, M. D., & Weir, J. T. (2017). Hybrid speciation leads to novel male secondary sexual ornamentation of an Amazonian bird. *Proceedings of the National Academy of Sciences of the United States of America*, 115(2), E218-E225.
- Basak, S., León, J. C., Ferranco, A., Sharma, R., Hebenbrock, M., Lough, A., . . . Kraatz, H.-B. (2018). Agl-induced switching of DNA binding modes via formation of a supramolecular metallacycle. *Chemistry - A European Journal*, 24(15), 3729-3732.
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- Baysan, U., & Wilson, J. (2017). Must strong emergence collapse? *Philosophica*, 91(1), 49-104.
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- Bennett, P., Bonacina, I., Galesi, N., Huynh, T., Molloy, M., & Wollan, P. (2017). Space proof complexity for random 3-CNFs. *Information and Computation*, 255, 165-176.
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- Bernstein, S., & Hoffmann, M. (2018). The politics of decarbonization and the catalytic impact of subnational climate experiments. *Policy Sciences*, 51(2), 189-211.
- Bertrand, O. C., Amador-Mughal, F., & Silcox, M. T. (2017). Virtual endocast of the early Oligocene *Cedromus wilsoni* (cedromurinae) and brain evolution in squirrels. *Journal of Anatomy*, 230(1), 128-151.
- Biggs, S., & Wilson, J. (2017). The a priority of abduction. *Philosophical Studies*, 174(3), 735-758.
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- Binnington, M. J., Lei, Y. D., Pokiak, L., Pokiak, J., Ostertag, S. K., Loseto, L. L., . . . Wania, F. (2017). Effects of preparation on nutrient and environmental contaminant levels in Arctic beluga whale (*Delphinapterus leucas*) traditional foods. *Environmental Science: Processes and Impacts*, 19(8), 1000-1015.
- Birn, A.-E., Muntaner, C., & Afzal, Z. (2017). South-south cooperation in health: Bringing in theory, politics, history, and social justice. *Cadernos De Saude Publica*, 33Suppl 2, e00194616.
- Bloom, D. D., & Lovejoy, N. R. (2017). On the origins of marine-derived freshwater fishes in South America. *Journal of Biogeography*, 44(9), 1927-1938.
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- Bobyk, K. D., Mandadapu, S. R., Lohith, K., Guzzo, C., Bhargava, A., Lusso, P., & Bewley, C. A. (2017). Design of HIV coreceptor derived peptides that inhibit viral entry at submicromolar concentrations. *Molecular Pharmacology*, 14(8), 2681-2689.
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- Boonstra, R., Dušek, A., Lane, J. E., & Boutin, S. (2017). When the ball is in the female's court: How the scramble-competition mating system of the North American red squirrel has shaped male physiology and testosterone dynamics. *General and Comparative Endocrinology*, 252, 162-172.
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Select Publications

- Cadotte, M. W.**, Livingstone, S. W., Yasui, S.-E., Dinnage, R., Li, J.-T., Marushia, R., . . . Shu, W. (2017). Explaining ecosystem multifunction with evolutionary models. *Ecology*, *98*(12), 3175-3187.
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- Campolieti, M.** (2018). Heavy-tailed distributions and the distribution of wealth: Evidence from rich lists in Canada, 1999–2017. *Physica A: Statistical Mechanics and its Applications*, *503*, 263-272.
- Campolieti, M.** (2018). Matching and inverse propensity weighting estimates of the union wage premium: Evidence from Canada, 1997–2014. *Industrial Relations*, *57*(1), 101-130.
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