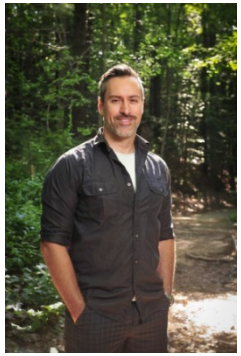
UNIVERSITY OF TORONTO SCARBOROUGH

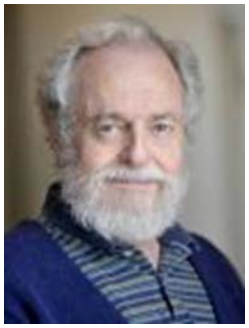
Office of the Vice-Principal, Research Presentation 2016-2017

UTSC Academic Affairs Committee
April 25, 2017

Prestigious Awards and Honours



Marc Cadotte(2014-2019)
TD Professor of Urban Forest Conservation & Biology
Dept. Biological Sciences



John Friedlander
University Professor(2002)
Joseph L. Doob Prize from AMS(2017)
Dept. Computer & Mathematical Sciences

John Kennedy(2009)
University Professor
Dept. Psychology

Zindel Segal(2013)
Distinguished Professor
Dept. Psychology

Herbert Kronzucker(2015)
Distinguished Professor
Dept. Biological Sciences

Balint Virag(2014)
Co-Exeter James Prize from CMS
Dept. Computer & Mathematical Sciences

Tanya Mars(2008)
Governor General Award in Visual & Media Arts
Dept. Arts, Cultural & Media

Andrea Charise(2014)
John Charles Polanyi Prize in English
Dept. Health Studies

Katherine Larson(2008)
John Charles Polanyi Prize in English
Dept. English

Rick Halpern(2008)
Bissell-Heyd Chair of America Studies
Dept. Historical & Cultural Studies

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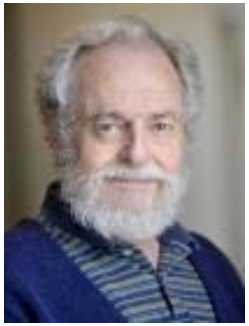
Royal Society of Canada



John Friedlander (1988)
Dept. Computer and Mathematical Sciences

Lisa Jeffrey (2007)
Dept. Computer and Mathematical Sciences

John Kennedy (2005)
Dept. Psychology

Michael Lambek (2000)
Dept. Anthropology

Judith Teichman (2014)
Dept. Political Sciences

Balint Virag (2014)
Dept. Computer and Mathematical Sciences

Nathalie Rothman (2016)
Dept. Historical and Cultural Studies

UTSC Awards

UTSC Research Excellence Faculty Scholars

Frank Wania (2016-2019)
Dept. Physical and Environmental Sciences

Michael Inzlicht (2016-2019)
Dept. Psychology

Lisa Jeffrey (2016-2019)
Dept. Computer and
Mathematical Sciences

UTSC Research Recognition Award

Anthony Ruocco(2016)
Dept. Psychology

UTSC Principal Research Award

Maydianne Andrade(2016)
Dept. Biological Sciences

Nick Eyles Andrade(2016)
Dept. Physical and Environmental Sciences

UTSC Canada Research Chairs 2016

Bebhinn Treanor (2016-2021)
Dept. Biological Sciences

Kagan Kerman (2016-2021)
Dept. Physical and Environmental Sciences

Brian Connelly (2016-2021)
Dept. Management

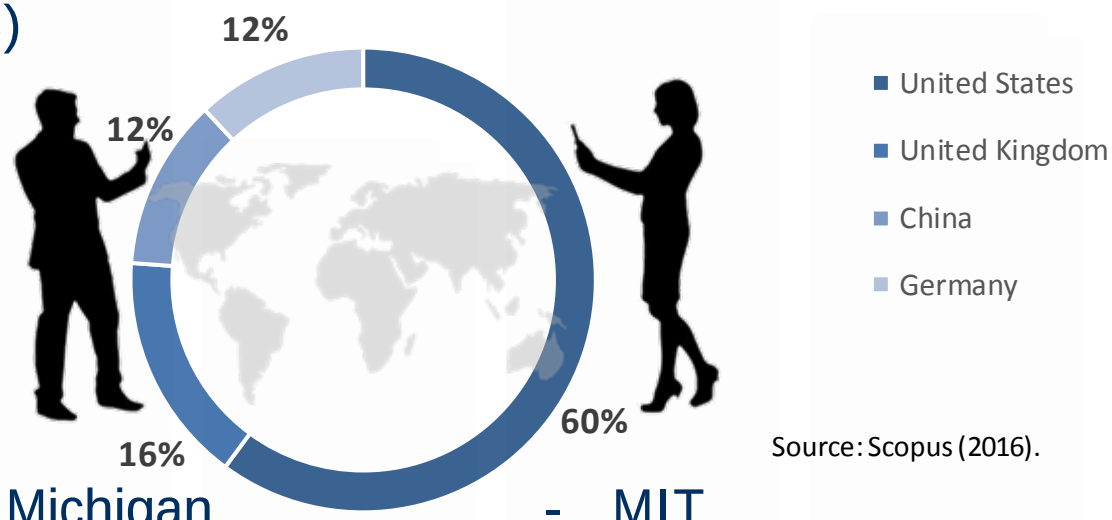
UNIVERSITY OF TORONTO SCARBOROUGH

UTSC Publications 2015 & 2016

Department/Centre	Journal Articles	Books	Book Chapters
Anthropology	47	2	5
Arts, Media & Culture	6	1	3
Biological Sciences	92	0	4
Computer & Mathematical Sciences	44	0	2
CTR- Critical Development Studies	27	0	0
CTR-French & Linguistics	6	1	3
English	3	3	1
Historical & Cultural Studies	4	4	0
Human Geography	25	0	4
Management	42	1	4
Philosophy	4	2	0
Physical & Environmental Science	186	2	7
Political Science	7	5	1
Psychology	111	1	7
Sociology	14	0	1
Grand Total	**618**	**22**	**42**

International Collaborations

- Wide network of international collaborations
- Involving researchers from USA (116), China (23), UK (31), Germany (23)



Source: Scopus (2016).

- University of Michigan
- Scripps Institute
- University of Oxford
- MIT
- Imperial College London
- Carnegie Mellon University

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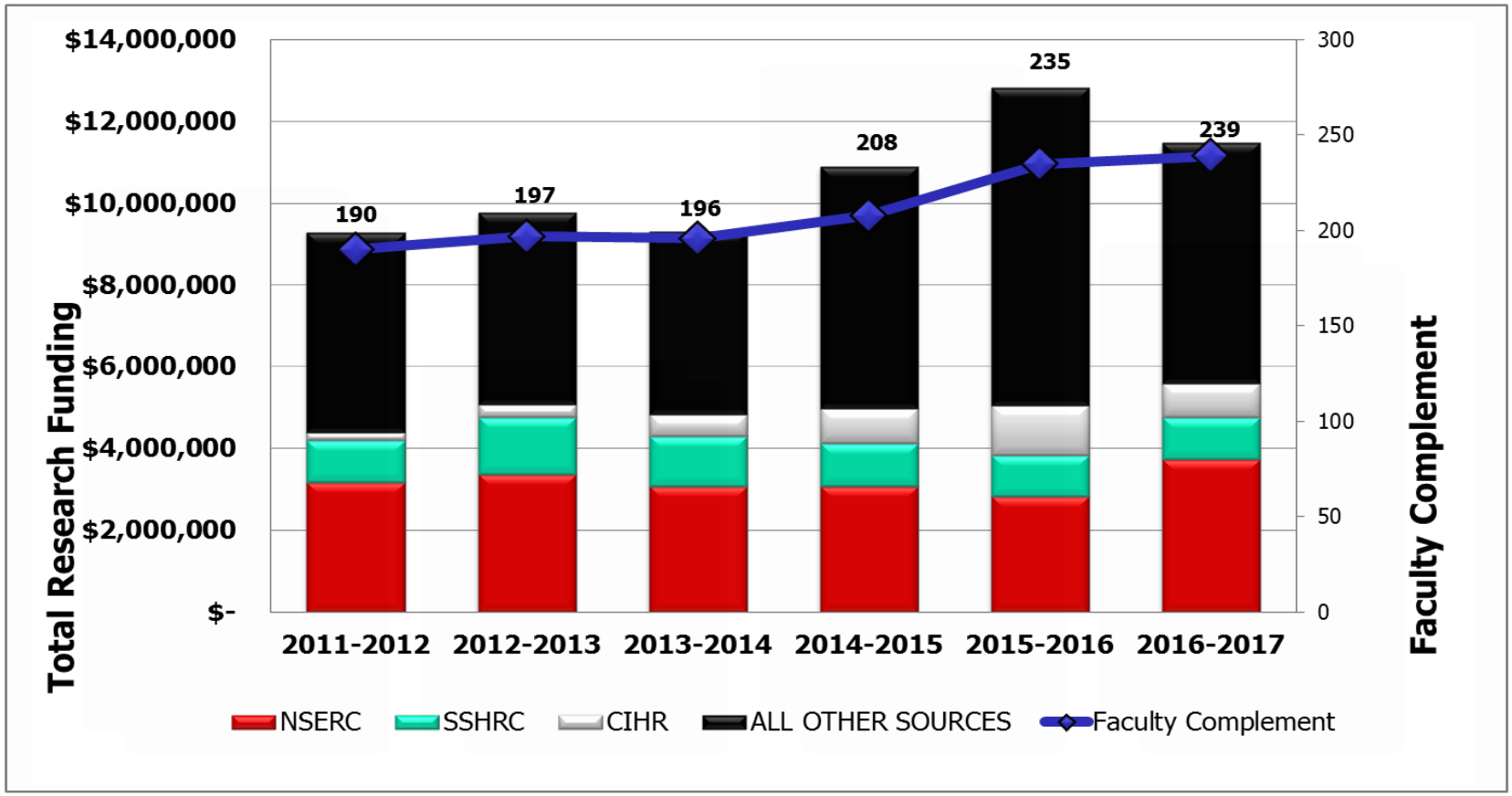
UTSC Research Funding



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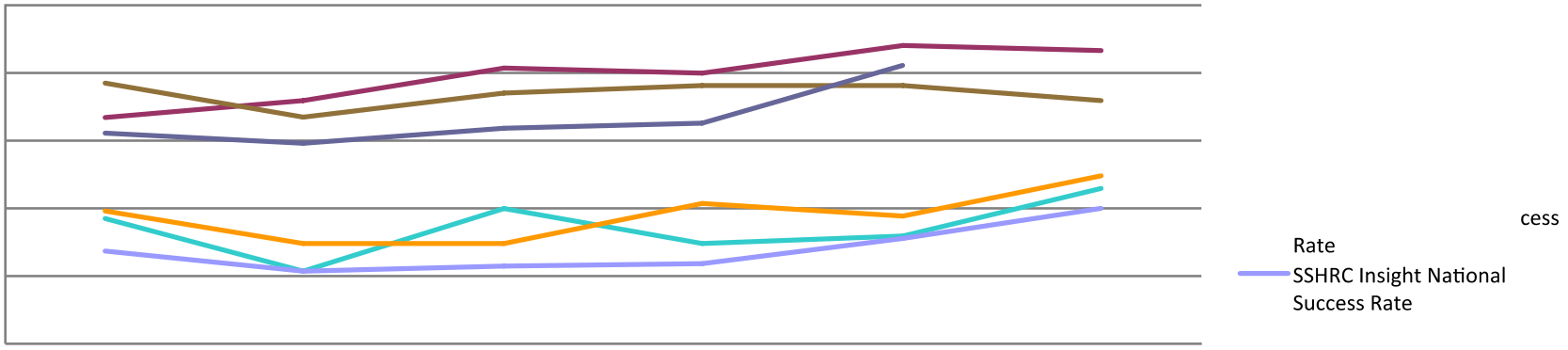
UTSC Research Funding

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017
NSERC	3,170,891	3,359,930	3,071,669	3,078,508	2,816,556	3,735,265
SSHRC	1,024,163	1,407,128	1,228,973	1,039,708	1,012,713	1,012,493
CIHR	192,678	312,057	528,704	855,781	1,224,038	830,770
Other	4,905,657	4,685,564	4,488,527	5,921,902	7,774,246	5,901,226
Faculty	190	197	196	208	235	239
TOTAL:	**$9,293,389**	**$9,764,679**	**$9,317,874**	**$10,895,899**	**$12,827,553**	**$11,479,754**

UNIVERSITY OF TORONTO SCARBOROUGH

NSERC Discovery and SSHRC Insight Grant Success Rates

Start Year	NSERC UTSC Discovery Grants Appns	Funded	NSERC UTSC Discovery Success Rate	NSERC U of T Success Rate	NSERC National Success Rate	SSHRC Insight UTSC Appns	Funded	SSHRC Insight UTSC Success Rate	SSHRC Insight U of T Success Rate	SSHRC Insight National Success Rate
2011	22	17	77.3%	72.1%	57.5%	27	16	59.3%	57.1%	37.0%
2012	18	12	66.7%	76.5%	62.4%	19	7	36.8%	39.4%	27.0%
2013	14	10	71.4%	66.8%	59.0%	19	4	21.1%	29.4%	21.1%
2014	21	17	81.0%	73.8%	63.7%	15	6	40.0%	29.4%	23.0%
2015	20	16	80.0%	75.9%	65.0%	17	5	29.4%	41.0%	23.4%
2016	17	15	88.2%	76.2%	66.0%	22	7	31.8%	37.8%	31.1%
2017	15	13	86.6%	71.3%	TBC	22	10	45.5%	49.2%	40%



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Research Funding by Department 2016-2017

DEPARTMENT / CENTRE	TOTAL VALUE	# OF GRANTS / CONTRACTS
ANTHROPOLOGY	553,624	12
ARTS, CULTURE & MEDIA	50,040	5
BIOLOGICAL SCIENCES	3,437,909	56
COMPUTER & MATHEMATICAL SCIENCES	1,212,664	28
CTR-CRITICAL DEV STUDIES	229,571	1
CTR-FRENCH & LINGUISTICS	75,400	6
ENGLISH	109,446	6
HISTORICAL & CULTURAL STUDIES	274,580	7
HUMAN GEOGRAPHY	89,519	7
MANAGEMENT	297,839	17
PHILOSOPHY	12,719	2
PHYSICAL & ENVIRONMENTAL SCIENCES	2,526,501	53
POLITICAL SCIENCE	332,226	15
PSYCHOLOGY	2,136,564	29
SOCIOLOGY	140,758	8
LIBRARY	394	1
GRAND TOTAL	**$11,479,754**	**253**

UNIVERSITY OF TORONTO SCARBOROUGH

VPRO Team

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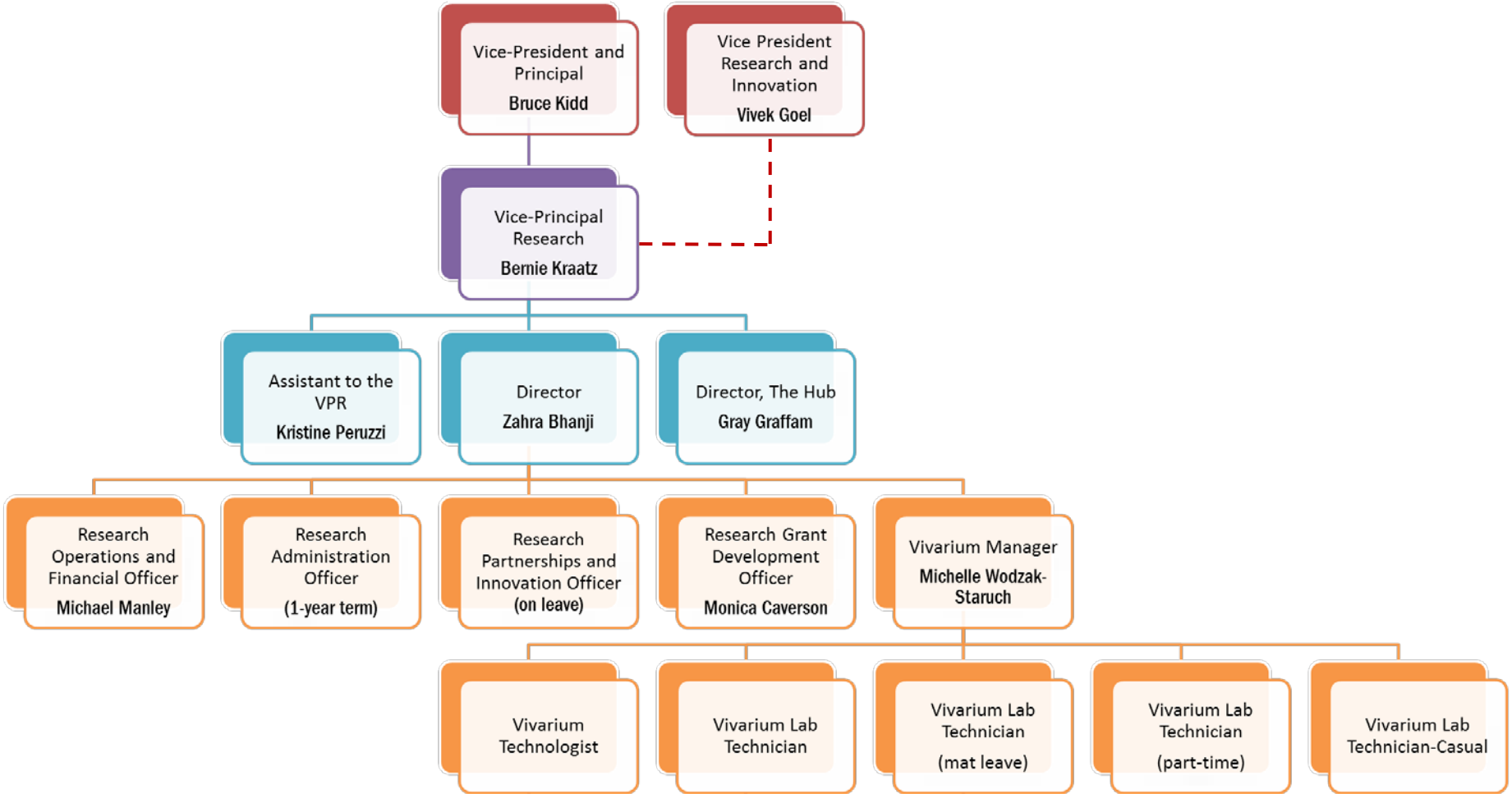
VPRO Organizational Chart



UNIVERSITY OF TORONTO SCARBOROUGH
1265 Military Trail, Toronto, Ontario M1C 1A4

VPRO Mission Statement

Enhance and promote research activity on campus and fully participant in the rich research landscape at the University of Toronto and beyond.

A Strategy for Success

- Administrative oversight and enhanced proposal development support
- Seed funding to enhance research competitiveness (RCF) and improve proposals (RGEF)
- Funding to offset costs of dissemination of research results (RIF)
- Supporting student research
- Funding for research related events

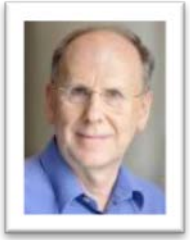
VPRO Support

A strategy for success

- In the past 4 years
  - Administrative oversight of **687** external grant applications
  - Review for compliance with UT protocols for indirect costs if applicable
  - MRA approval process support
- Enhanced processing of ~**317** applications
  - Proposal development and editing support
  - Review and feedback on narrative sections of proposal and/or budget review and feedback

Research Advisory Board 2016-2017

Donna Young
Department of Anthropology



Graeme Hirst
Department of Computer and Mathematical Science

Pascal Riendeau
Department of French and Linguistics

Mike Ekers
Department of Human Geography

Carl Mitchell
Department Physical and Environmental Sciences

Victoria Owen
Chief Librarian

Kenzie Burchell
Department of Arts, Culture and Media

Sharlene Mollett
Department of Critical Development Studies

Andrea Charise
Department of Health Studies

John Trougakos
Department of Management

Lucan Way
Department of Political Sciences

Blair Armstrong
Department of Psychology

Marc Cadotte
Department of Biological Sciences

Marjorie Rubright
Department of English

Daniel Bender
Department of Historical and Cultural Studies

Jessica Wilson
Department of Philosophy

Joe Hermer
Department of Sociology

Michael Schillaci
Department of Anthropology

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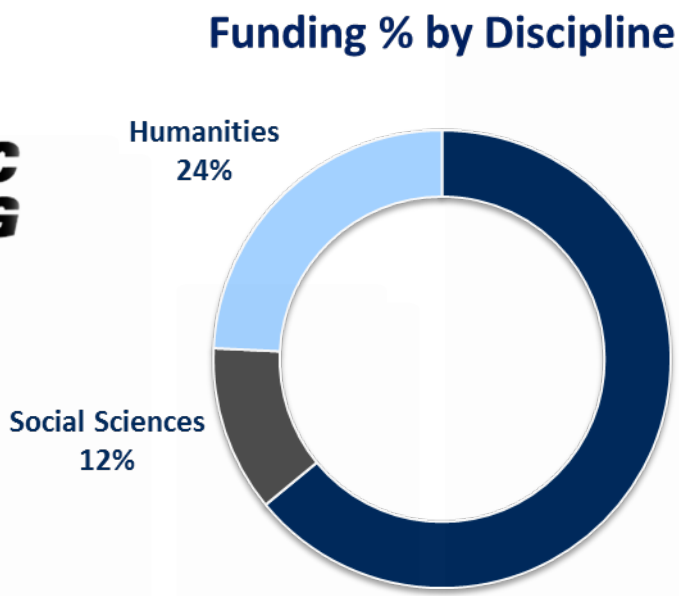
Research Grant Enhancement Fund 2016-2017

Department	Editing # Requests	Editing $ Amount	Honorarium # Request	Honorarium $ Amounts	CCV # Requests	CCV $ Amounts
Anthropology	4	1,000	1	100	1	200
Arts, Culture & Media	2	600	2	200		
Biological Sciences	5	1,500	1	300	2	500
Computer & Mathematical Sciences	1	300				
Ctr-Critical Dev Studies	0					
Ctr-French & Linguistics	1	300				
English	1	150				
Historical & Cultural Studies	3	900	3	300	2	400
Human Geography	4	1,200	1	100		
Management	3	900	1	100	1	200
Philosophy	1	300	1	100		
Physical & Environmental Sciences	6	1,800				
Political Science	0	-			1	200
Psychology	7	2,100	8	800	1	200
Sociology	1	300		100		
TOTAL	**39**	**$ 11,350**	**18**	**$ 2,100**	**8**	**$ 1,700**
Grand Total: $15,150 (2016-2017)						

Research Competitiveness Fund

- Enhancing the competitiveness of new external operating grant applications with an emphasis on Tri-Council funding programs
  - Since 2011 more than $800K was awarded to UTSC Faculty
  - In 2016-2017 a total of $141,309 was awarded



NSERC CRSNG

CIHR IRSC
Canadian Institutes of Health Research
Instituts de recherche en santé du Canada

Social Sciences and Humanities Research Council of Canada
Conseil de recherches en sciences humaines du Canada
Canada

UNIVERSITY OF TORONTO SCARBOROUGH

VPRO Research Impact Fund

Research Impact Fund Totals to Date July 2012 to January 2017		
Department	# Funded	$ Amount
Anthropology	14	7,000
Arts, Culture Media	7	4,340
Biological Sciences	9	4,500
Centre for Critical Development Studies	0	-
Centre for French and Linguistics	6	3,000
Computer and Mathematical Sciences	0	-
English	7	3,500
Historical and Cultural Studies	3	1,500
Human Geography	2	1,000
Management	5	2,500
Philosophy	4	2,000
Physical and Environmental Sciences	14	7,000
Political Science	3	5,000
Psychology	7	3,500
Sociology	12	6,000
TOTAL	**93**	**$ 50,840**

Type of cost supported: Conference travel/registration – 67 and Publications 26

UNIVERSITY OF TORONTO SCARBOROUGH

VPRO Funded Research Events 2016-2017

Research Events on Campus 2016-2017	Audience	Funding
New Frontiers Seminar Series	Faculty/Student	10,000
Environmental Studies Doctoral Student Colloquium	Student	1,500
Interdisciplinary Research & Discovery Symposium	Student	700
Ontario High School Student-Student Award	Community outreach	500
TEDxUTSC	Campus wide	5,000
Undergraduate Research Poster Forum and Prize - UTSC Library	Student	3,000
Destination Imagination Science Fair	Community outreach	8,000
Science Rendezvous	Student/Community	5,300
Toronto Science Fair	Community outreach	7,516
Celebration of Research Excellence	Faculty	3,000
UTSC Start-up Competition	Student	10,000
Sociology Outreach Events	Faculty/Student	2,300
Biological Sciences Seminar Series	Faculty/Student	3,000
Symposium for Art, Perception and History	Faculty/Student	2,200
Super-Cities In Asia Governance Workshop	Faculty/Student	1,500
TOTAL		**$ 63,516**

Science Rendezvous

- The annual Science Rendezvous Event where Let's Talk Science organizes zoology-based activities at the Toronto Zoo, reaching hundreds of youth and adults
- Over 300 Let's Talk Science student volunteers from UTSC have participated in outreach events including Science Rendezvous

UTSC VPRO Student Research Awards + Grants 2017

- Graduate Student Research Award
  - Phd award and masters award at $1000/each per year
  - 2017 Recipients: TBC
- Undergraduate Research Prize (with UTSC Library)
  - 3 awards/year at $1000/each
- Graduate Student Travel Grants
  - 2016-2017: TBC

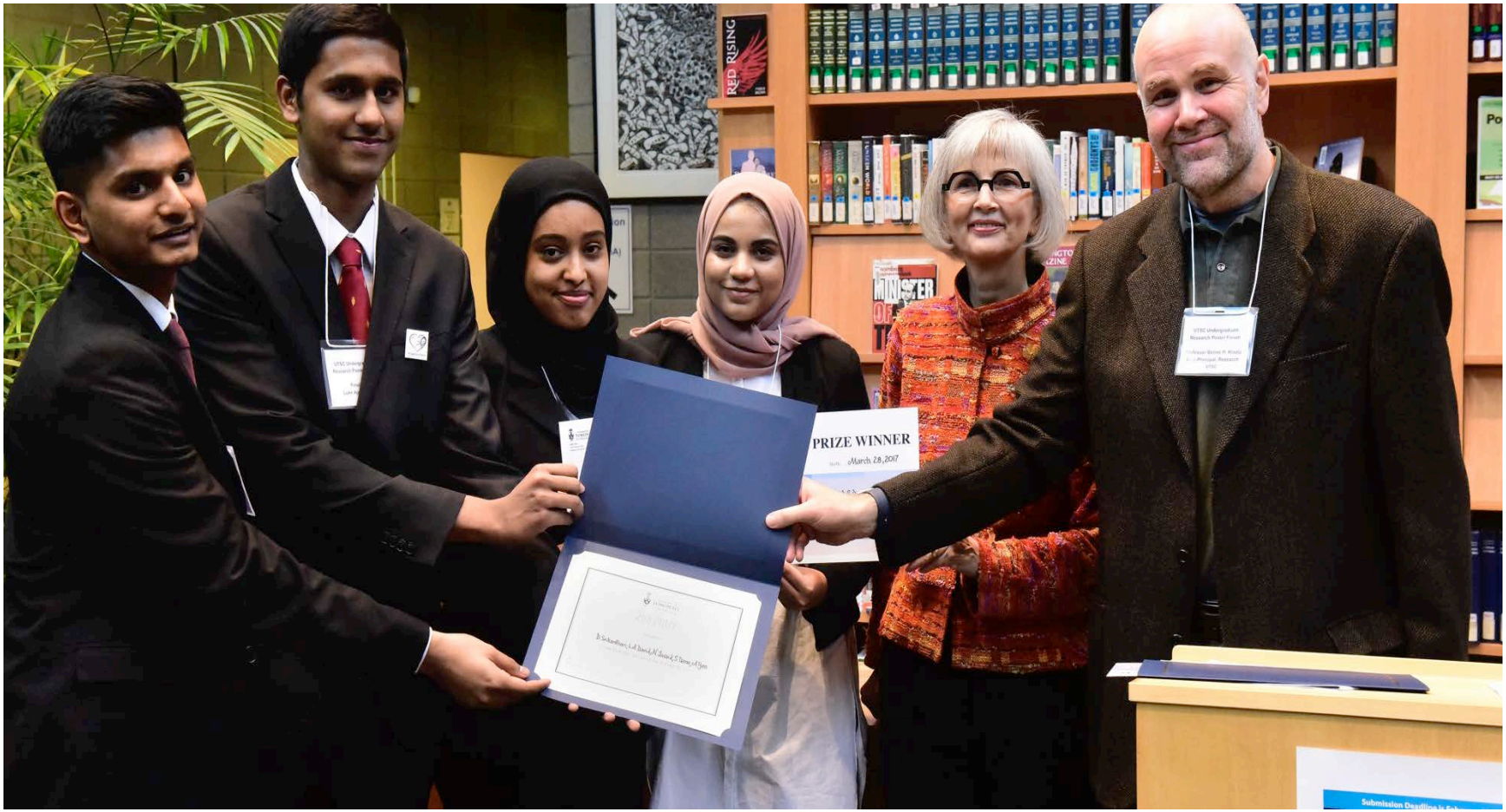
UNIVERSITY OF TORONTO SCARBOROUGH

Undergraduate Research Poster Forum

- First place winner ($1000 award)
  - Tasneem Ezzy
- Second place group ($500 award)
  - Srikanthan Sumaya Dano, Ajay David, Nimra Javaid, Dilakshan Srikanthan and Amanda Yee
- Third place tie ($250 award per winner)
  - Ayesha Tasneem
- Third place tie ($250 award per winner)
  - Steven Chang
- Third place tie ($250 award per winner)
  - Maegan Evelyn Sweeney

UNIVERSITY OF TORONTO SCARBOROUGH

Undergraduate Research Poster Forum 2017 (VPRO and Library)



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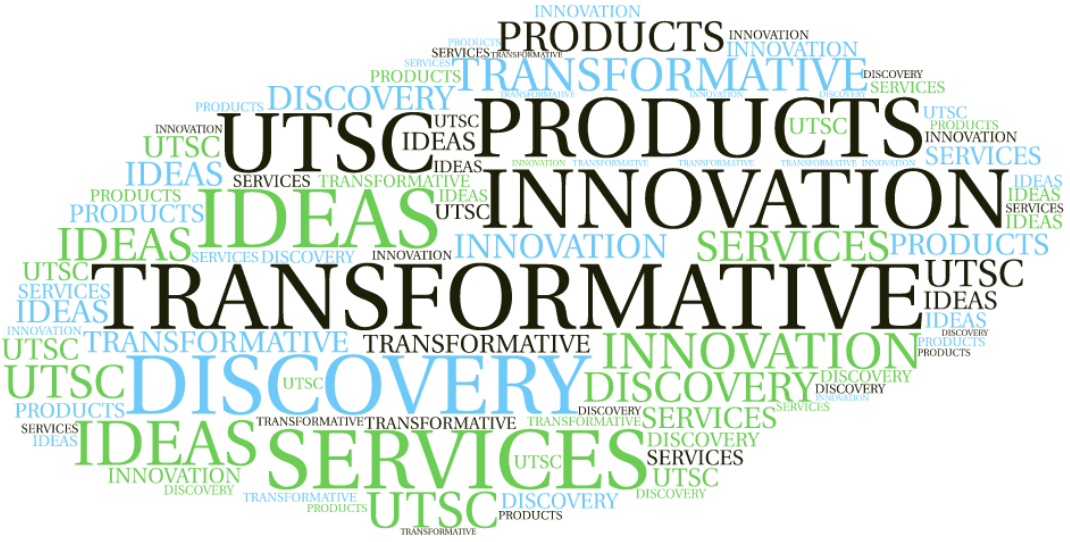
UNIVERSITY OF TORONTO SCARBOROUGH

Awards & Honours Support

Award	No of Applications	Date	No of Successful Applications	Name of Successful Applicant(s)
Royal Society of Canada – Academy I Fellow	1	Dec-16	pending	
Royal Society of Canada – Academy III Fellow	1	Dec-16	pending	
Canada Research Chair	1	May-17	pending	
Human Frontiers Science Program Career Dev't Award	1	Oct-16	pending	
NSERC Steacie Prize	1	May-17	pending	
Canadian Society of Chemistry - Rio Tinto Alcan Award	1	Feb-17	1	Heinz-Bernhard Kraatz, DPES
American Mathematical Association Doob Prize	1	Jan-17	1	John Friedlander, CMS
Yidan Prize	1	Mar-17	pending	
Connaught New Researcher Awards	13	Dec-16	pending	
Canada's Top 40 Under 40 Awards	4	Mar-17	pending	
Ministry of Research & Innovation – Early Researcher Award	2	Dec-16	2	Artur Izmaylov, DPES Steven Farber, Human Geography

UTSC Commercialization Activity FY 2011-2016

Activity	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016
New Invention Disclosures	4.0	1.0	1.8	2.2	1.5	1.0
New Priority Patent Apps Filed	0	0	2	1	3	0
US Patents Issued	0	0	0	0	0	0
New Licenses and Options	0	0	0	1	0	1
New Start-up Companies	0	0	0	0	2	1



UTSC The Hub: Keys to Success

Mission of The Hub

- The mission of The Hub is to help the University of Toronto Scarborough foster a thriving entrepreneurial spirit on campus, where its students and graduates come to realize their entrepreneurial vision through guidance, support, and mentorship.
- Now working with an Advisory Board of leading entrepreneurial experts.

UTSC The Hub: Stats 2016-2017

At a glance

- 926 students taking part in Hub events
- 20+ companies
- $30,000 in seed funding (OCE + UTSC)
- Startups in Environmental Science, Management, New Media, Computer Science, Healthcare, Music
- Equity valuation pending; exceeds $1 million


EXIT

Genecis

Home Product Facts and Stats About Us

Genecis

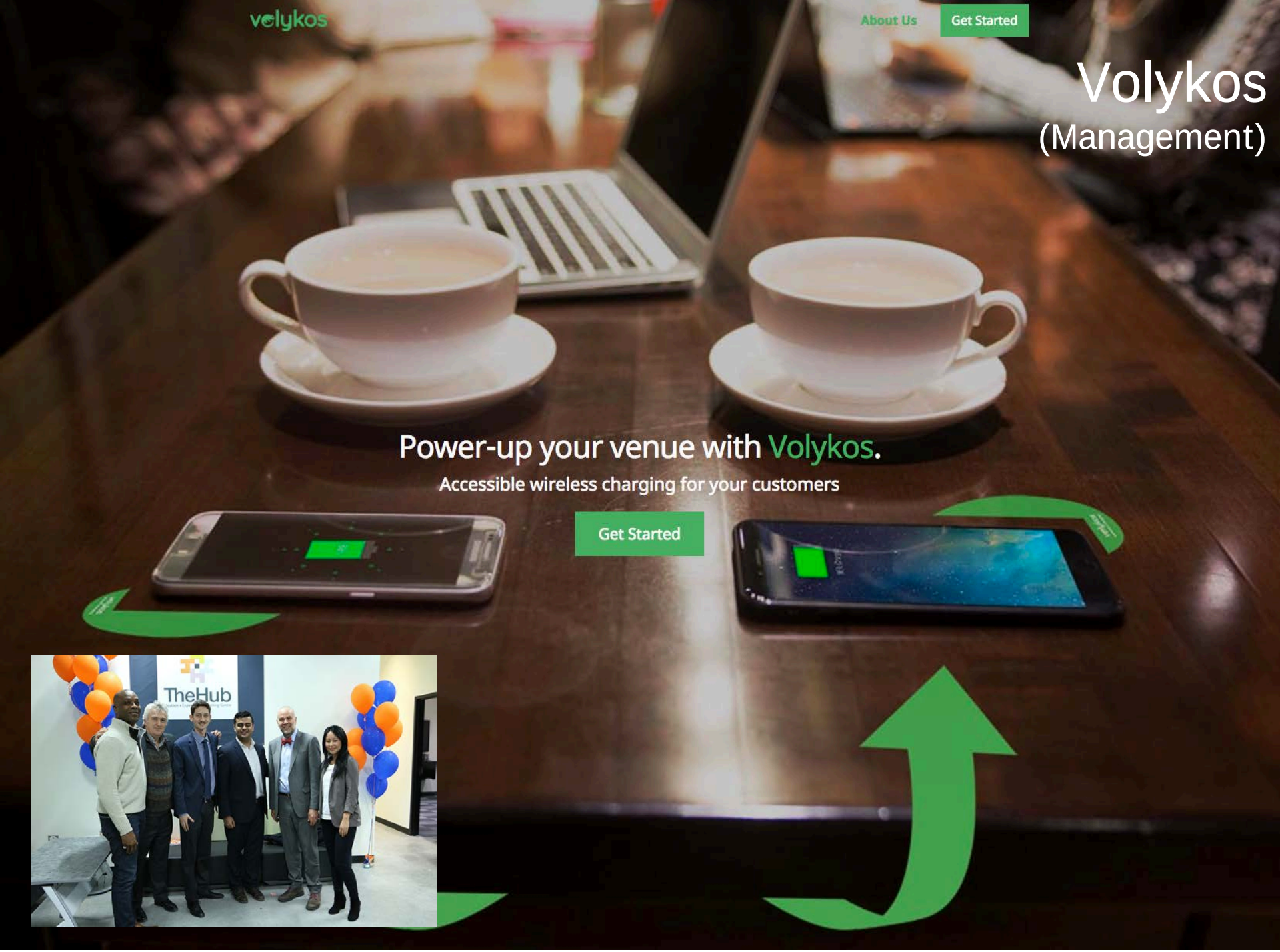
(Environmental Science)

Genecis

The right way for your food waste.

CLICK TO BEGIN

Volykos
(Management)



StageKeep

(Arts, Culture & Media)

StageKeep

Rouge National Urban Park

(The Hub)

UNIVERSITY OF TORONTO SCARBOROUGH

RESEARCH & INNOVATION

@ U of T SCARBOROUGH

Concept and Design: THE WORKS DESIGN COMMUNICATIONS worksdesign.com

RESEARCH & INNOVATION
@ U of T SCARBOROUGH

CONTENTS

MESSAGE FROM THE VICE-PRINCIPAL, RESEARCH

RESEARCH AND INNOVATION ARE FRONT AND CENTRE AT THE UNIVERSITY OF TORONTO SCARBOROUGH.

From its early beginnings, this campus, as an integral part of the University of Toronto, has inspired and educated students to become problem solvers of tomorrow. Together with our world-class faculty, we offer breadth and depth, spanning a wide spectrum of disciplines, with a commitment to excellence. Our academic community of scholars creates an environment that brings together our students with leading humanists, social scientists, artists and scientists to challenge ideas and focus on problems that matter.

Our 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 scientific minds of tomorrow.

The quality of our students is critically linked to the quality of our research. At U of T Scarborough, our faculty consists of thought leaders who are recognized for excellence in their fields. And we are committed to students getting research experience as early as possible. Our Research Catalogue provides undergraduate students access to an amazing database of research opportunities and integrates them into the research enterprise of our institution.

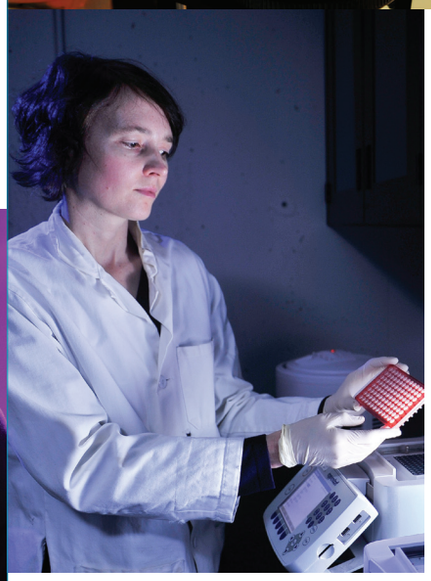
As part of our commitment to bringing innovation to life, The Hub provides an innovation space where students from across the disciplines can explore ideas and launch successful businesses – and become part of the wider experience that University of Toronto Entrepreneurship offers.

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

But our collective responsibility is not just to educate the minds of tomorrow. Through our research and teaching, we tackle climate change, poverty, health and other societal issues that challenge humanity right now.

In these pages, you'll discover just a small fraction of the exciting work we're doing to tackle these issues here at Canada's leading university.

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



OUR STORIES

As part of Canada's pre-eminent research university, U of T Scarborough hosts strong graduate programs and highly regarded research centres – and has a history of bringing intellectual resources to bear on issues of public concern.

WINNERS OF THE UNDERGRADUATE RESEARCH POSTER FORUM

(Sponsored by the Library and the Office of the Vice-Principal, Research)

1st – Srivathsan Morkonda Gnanasekaran: "Migration of Moonlets in Saturn's Rings"

2nd – Tania Mahendiran: "Investigating Interactions Between Mood & Global & Local Scene"

3rd – Kevin Ng: "Urban Hydrology of the Mimico Creek Watershed"

WHAT CAN HUMMINGBIRDS TELL US ABOUT METABOLISM?

Professor Ken Welch is leading a research team to explore the metabolic functioning of hummingbirds.

Welch, a biologist at U of T Scarborough, says the birds "operate at the extremes of physical and metabolic performance. To fuel their high-energy hovering flight, they can break down ingested sugars at rates 55 times that of non-flying mammals. Even more impressively," he adds, "they can directly fuel their intense exercise completely with fructose" – something no other vertebrate can do.

"Hummingbirds are also insulin-insensitive," says Welch. This means the classic regulatory mechanisms at work in other vertebrate groups, including humans, do not function in the hummingbird.

But much is still unknown about this impressive bird's adaptations in enzyme function and regulation.

Welch's team is international – including researchers from Johns Hopkins University and Spain's Center for Cooperative Research in Biosciences – and also interdisciplinary. Researchers with expertise in molecular biology, genomics, molecular biophysics and physiology will study hummingbird metabolic performance from the molecular level all the way up to the bird itself.

The ultimate hope is to better understand the mechanisms that underlie the diversity of metabolic physiology in animals – and maybe, says Welch, to find insights into human metabolic physiology and disease as well.

The project is funded by a grant from the Human Frontier Science Program.

WINNERS OF THE INAUGURAL U OF T SCARBOROUGH UNDERGRADUATE RESEARCH PRIZE

(Sponsored by the Library and the Office of the Vice-Principal, Research)

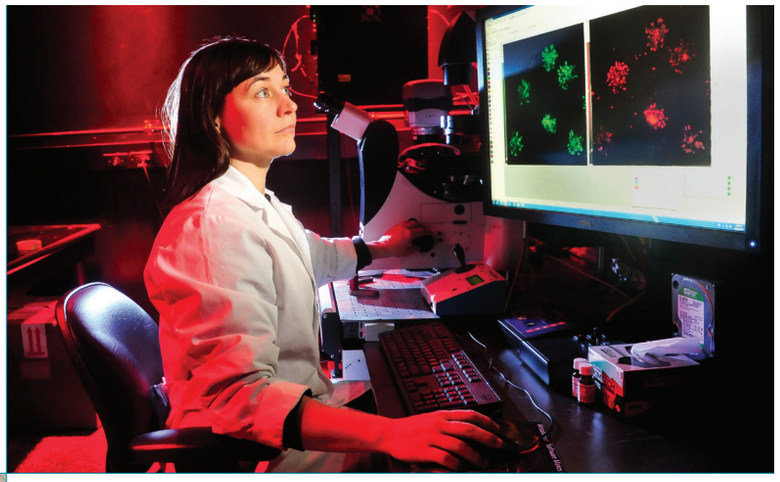
Nishita Agrawal, Management: "When Too Many or Too Few Steve Jobs Can Be Detrimental: Optimal Levels of Entrepreneurship and Growth"

Cherrie (Yan Ning) Kwok, Psychology: "The Effect of Destination Ambiguity on the Perception of Travel Time"

Swara Shah, Biological Sciences: "Comparative Ontogeny of Feeding Performance in Durophagous Stingrays"

78,812
AV MATERIALS
(slides, sound recordings, videos)

269,744
SUBSCRIPTIONS
to serial publications available to all University of Toronto faculty and students



307,590
PHYSICAL VOLUMES
in the U of T Scarborough Library, and access to more than 12 million volumes through the U of T Libraries system

FOOD FOR THOUGHT HERE IN SCARBOROUGH

It's no coincidence that the Culinaria Research Centre is at U of T Scarborough. Culinaria is the hub of food studies for U of T, and Scarborough is the hub of some of the best pho, roti and lahmajoun on the planet. The cuisine is tied to culture, history and economics – not to mention migration. Scarborough is one of the world's most diverse communities.

"We learn which food tastes good even before we speak," says Professor Daniel Bender, Culinaria's director. Food is a way for immigrants to hold on to their cultural identity, and sometimes their only way to make a living. Notes Bender, "There are more jobs in the food and food processing centres here than in New York City."

In 2016, Culinaria hosted *Scarborough Fare: Global Foodways and Local Foods in a Transnational City.* The conference brought three groups together for the first time – the Association for the Study of Food and Society; the Agriculture, Food and Human Values Society; and the Canadian Association for Food Studies.

Culinaria researchers employ field and archival work, oral history, GIS mapping and more. One project, Scarborough Chinatown, focuses close to home, collecting maps and restaurant histories. Another – U of T Scarborough Professor Jeffrey Pilcher's project, City Food – involves partners on six continents.

In 2015–2016, American scholar Elizabeth Zanoni was Culinaria's first postdoctoral fellow. She said it was an ideal place to study migrant foodways: a research centre "passionate about engaging the community," in a community where "the cuisines aren't watered down."

> "There are more jobs in the food and food processing centres here than in New York City."
>
> *Daniel Bender,*
> Canada Research Chair in Cultural History and Analysis, Professor of History, Historical and Cultural Studies

A FASTER WAY TO MEASURE PLANETARY MOVEMENT

Two astrophysicists at U of T Scarborough have developed a new tool to calculate the movement of planets. Professor Hanno Rein and postdoctoral fellow Daniel Tamayo have improved on the algorithms in use for the past 30 years.

The pair have improved speed by a factor of two to five – and accuracy even more so. Until now, small errors would grow by a factor of 100 when going from one year to 100 years. With Rein and Tamayo's algorithm, errors will grow by a factor of 10 over the same period.

"Even a tiny error after one year will have a dramatic effect after one million years," notes Tamayo.

The new algorithm is open source; other scientists can download and use it. "They can also make improvements on it," says Rein.

At the Centre for Planetary Sciences, Rein and Tamayo look at whether the solar system is chaotic.

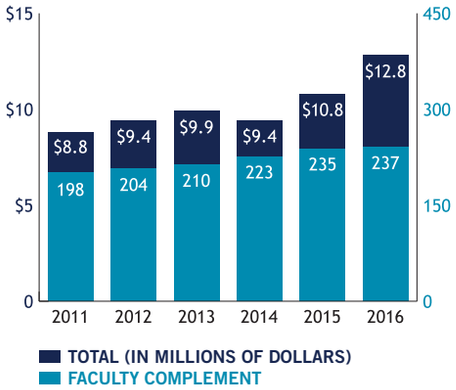
It very likely is, says Tamayo. "There's a reasonable chance that Mercury will get ejected from it or collide with the sun or another planet. Such an event, even though billions of years away, would have dramatic consequences on the entire solar system."

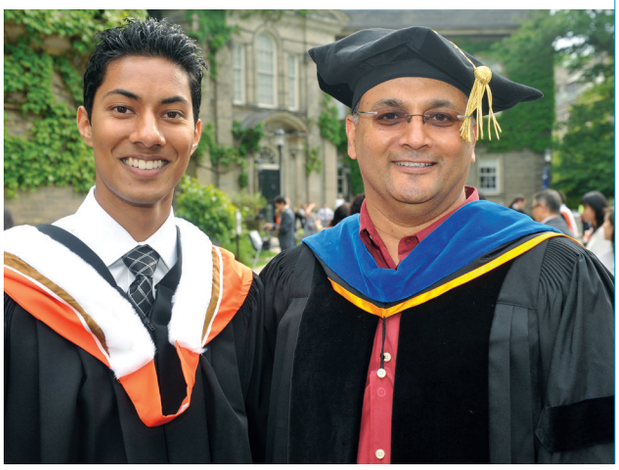
Hence the need to be as accurate as possible with astrophysical simulations.

> "Even a tiny error after one year will have a dramatic effect after one million years."
>
> *Daniel Tamayo,*
> Post-doctoral Fellow in Astro-Physics, Centre for Planetary Science

RESEARCH FUNDING AND FACULTY COMPLEMENT

(2010/2011–2015/2016)





TRACKING THE EVOLUTION OF THE KIWI BIRD

New Zealand's kiwi have much to tell us about evolution during the most recent ice age (the Pleistocene). A team led by Jason Weir has found that the kiwi underwent "explosive" genetic diversification during that time.

Weir, a biologist at U of T Scarborough, says there are now 11 kiwi species and subspecies, with six others extinct. As ice spread over the land, he says, the kiwi retreated to isolated refuges where they gradually evolved new characteristics. This was repeated as the ice expanded and shrank some seven times over nearly 800,000 years.

Previous research showed only five species of kiwi, said to have developed *before* the Pleistocene. Why the dramatic difference?

Weir is one of the first scientists to use sophisticated new methods of DNA testing, which track thousands of genetic markers on the genome. Previous research employed a simple system of DNA testing, using a single genetic marker. Many other creatures have been classed in the old way. But that way "is out the window now," says Weir. "These new methods are going to be used extensively."

He expects scientists to revisit evolutionary studies of many birds and animals in the Americas and in other places that had periods of glaciation.

Weir's team included researchers in New Zealand and at the Royal Ontario Museum. The findings were published in the prestigious American journal *Proceedings of the National Academy of Sciences*.

121

POST-DOCTORAL FELLOWS

24
BOOKS PUBLISHED, 2015 + 2016

619
JOURNAL ARTICLES

CONNECTING UNDERGRADUATES WITH RESEARCH OPPORTUNITIES

U of T Scarborough has created a catalogue that is both inspirational and practical. The new U of T Scarborough Research Catalogue gives a full list of research opportunities at the campus and its partner institutions around the globe.

Available to all U of T Scarborough students via the online Career Learning Network (CLN), the new catalogue is a useful tool for undergraduates who want to do research. They can learn about the breadth of opportunities available – and start planning ahead.

Developed by the Office of the Vice-Principal, Research and the Academic Advising & Career Centre, it benefits faculty too. They can spread the word about their research opportunities and give advice to students who may want to work with them. The catalogue also showcases faculty research profiles.

130
REVIEWS, EDITORIALS, NOTES, LETTERS, CONFERENCE PAPERS, SHORT SURVEYS, EXHIBITIONS AND PERFORMANCES

TOP PRIZE FOR PLANNING EXPERT

André Sorensen, an associate professor in U of T Scarborough's Department of Human Geography, has won a top award in his field – the 2016 award for Best Published Paper, from the Association of European Schools of Planning.

In the paper, "Taking path dependence seriously: an historical institutionalist research agenda in planning history," Sorensen developed a theoretical framework and proposal for a research agenda in planning history that employs a historical institutionalist (HI) approach.

He says HI provides valuable concepts and methods for planning history research, which can help in developing long-run international comparative studies of urban planning and planning governance.

"One aspect that is very exciting for me," he says, "is that a number of researchers are already working with my conceptual framework and developing several aspects of my proposed research agenda."

The paper was published in *Planning Perspectives*.

CLOSE TO
$1 MILLION
invested for research promotion to assist faculty in applying for grants, hosting research events, publishing papers and attending conferences around the world

45
BOOK CHAPTERS PUBLISHED

MINDFULNESS REDUCES DEPRESSION

Psychology Professor Zindel Segal of U of T Scarborough has been named a Distinguished Professor by the University of Toronto – one of only 27 faculty members, university-wide, to hold this designation.

For more than 20 years, Segal has studied the therapeutic uses of mindfulness to treat a range of mental health challenges. He has recently gained international attention for his pioneering work on mindfulness-based cognitive therapy (MBCT) as a way to keep depression from reoccurring.

Randomized controlled trials have shown MBCT to be as effective as antidepressant medication in preventing relapse.

"As we know," says Segal, "antidepressants are currently the standard of care. This is a very big finding because here you have a talk therapy – a therapy that doesn't use drugs – showing protection that is on par with the use of medication."

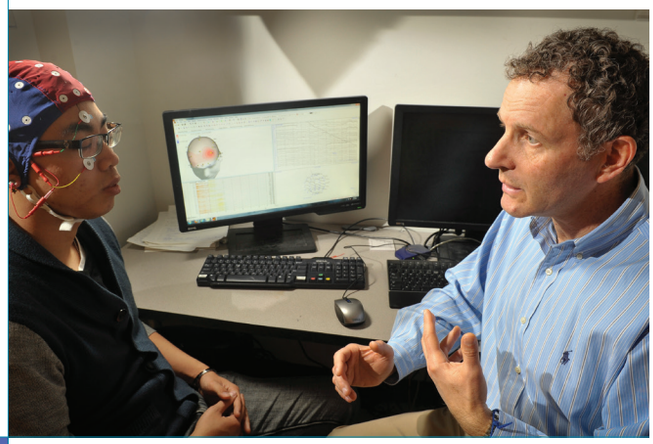
Segal's team is currently evaluating a digital version of MBCT, which could be accessed online. It could allow people to be treated at home instead of attending an in-person MBCT group.

29%

SUCCESS RATE

in the SSHRC Insight Grants program, compared to the

NATIONAL RATE OF 23%



20%

INCREASE IN TENURE-STREAM FACULTY SINCE 2011

80%

U OF T SCARBOROUGH'S SUCCESS RATE

in the NSERC Discovery Grants program, compared to the

NATIONAL RATE OF 65%

CITIZENS AS RESEARCHERS

Inside every citizen dwells a potential researcher. By promoting citizen engagement, an online research platform called Participedia aims to connect these latent researchers with those already in the field.

Bettina von Lieres is interim associate director of the Centre for Critical Development Studies at U of T Scarborough – and Participedia's director of teaching and learning.

She describes Participedia as "a citizen-led platform that allows researchers, citizens and policy makers to really work together to put research out into the open. One aim," she says, "is to get experts and non-experts together."

Von Lieres grew up under apartheid in South Africa. She has always been interested in issues of citizen engagement.

"There is an increasing sense in the world where people feel that they should hold their governments accountable," she says, "and citizen engagement is seen as a way of making states and governments listen to citizens."

$1.4+ MILLION

in equity generated over three years by companies launched at The Hub, our early-stage innovation and business incubator supporting student entrepreneurship

- 222 students have used The Hub to foster ideas and ready them for launch
- 12 companies launched
- 12 events
- $45,000 seed funding awarded

U OF T SCARBOROUGH GRADUATE STUDENT RESEARCH AWARDS

PhD – Devim Coskun, Biological Sciences: "On the Roles of Membrane Channels in Plant Mineral Nutrition and Toxicity"

Master's – Dean Carcone, Psychology: "Memory Encoding in Borderline Personality Disorder"

STARTUP IS A WINNER

Ravi Ravindran (BSc, 2015) has won a first-place award – an investment of $100,000 – for an idea he refined at The Hub. Ravindran's app, Mapian, gives smartphone users geo-tagged, user-generated content via digital maps. It offers localized interactions with friends and feedback on places, venues and events. Ravindran won the major cash award by pitching his idea, Dragons' Den style, to The Launch Pad, a Toronto-based competition for Tamil entrepreneurs across North America. Ravindran, who studied neuroscience and psychology at U of T Scarborough, had already lined up private investment for the app. The Launch Pad win provided a significant boost toward a 2016 launch.

2016 PRINCIPAL'S RESEARCH AWARDS

Biologist Maydianne Andrade and geologist Nick Eyles have won the 2016 Principal's Research Award for their life's work. The two gave lectures at U of T Scarborough's Celebration of Research Excellence ceremony.

Andrade is a world-renowned expert on black widow spiders. "When I started my research I was most interested in sexual cannibalism," she says, which "poses an evolutionary conundrum."

Andrade also studies plasticity and the evolution of plasticity – how specific traits are expressed in an organism over time, when exposed to environmental conditions.

She talked about fundamental research and the curiosity that drives it. "You can't anticipate where it will take you," or which pieces of information will be important. She pointed to the Mars rover, its workings modelled on an insect nervous system – knowledge that stems back to fundamental research.

Nick Eyles is currently using satellite laser imagery to show how bullet-like landforms dotting parts of North America were carved out during the retreat of the last ice age. He became interested in geology in the 1960s, growing up in London, England. In his teens, he said, "I bought a motorcycle and just went out exploring the geology of Britain."

Eyles's research has since taken him to places such as Iceland, the Grand Canyon and, recently, to Congo, to draw a core sample of the earth more than a hundred miles deep.

Eyles, like Andrade, spoke of curiosity. "I want to find out as much as I can about the planet before I become part of it."

U OF T SCARBOROUGH FACULTY RESEARCH AWARD RECIPIENTS

Research Excellence Faculty Scholars:
Michael Inzlicht, Psychology; Frank Wania, Physical & Environmental Sciences;
Lisa Jeffrey, Computer & Mathematical Sciences

Principal's Research Award:
Maydianne Andrade, Biological Sciences, and Nick Eyles, Physical & Environmental Sciences

Research Recognition Award:
Anthony Ruocco, Psychology

SCIENCE COMES TO THE COMMUNITY

On May 7, 2016, more than 7,000 people visited the Toronto Zoo for a Science Rendezvous event presented by U of T Scarborough. The family-focused event offered activities and talks from our campus's scientists, while visitors moved through eight special pavilions.

Children learned about climate change impact while in the actual presence of polar bears. They also learned amazing facts about bats and bugs from U of T Scarborough student volunteers.

Science Rendezvous is an annual event coinciding with Science Odyssey, the Government of Canada's 10-day celebration of science and engineering. On Rendezvous day, Canada's top research institutes present a coast-to-coast open house and festival – more than 300 events across 30 cities.

The zoo event strengthened the community partnership that has existed between the campus and the Toronto Zoo since 2008. Faculty hold appointments at the zoo and teach jointly with Toronto Zoo research staff in the area of conservation. The zoo is also a partner in U of T Scarborough's Co-op program for undergraduates.

309

VOLUNTEERS

for Let's Talk Science, the community outreach program encouraging youth to learn more about the sciences

"The fear and awe of a safari adventure, the excitement of a rock concert or the calmness of a spa" are all more socially evocative than material gifts.

Cindy Chan

IT'S BETTER TO GIVE ... AN EXPERIENCE

To make someone feel closer to you, give them an experience instead of a thing. New research by Cindy Chan shows that experiential gifts are more socially connecting because they tend to be more emotionally evocative. She speaks of "the fear and awe of a safari adventure, the excitement of a rock concert or the calmness of a spa."

Chan is an assistant professor in the Department of Management. Her research, co-authored with a colleague from UCLA, looked at how relationships between giver and recipient were affected across four separate studies. Past research has focused mostly on how much recipients enjoy certain gifts. Chan's research was unique in that it explored the pro-social consequences – that is, how effective gifts are in building relationships.

The results point to lost opportunities. Seventy-eight per cent of respondents said they had most recently purchased a material gift.

Chan says one of the four studies showed that material gifts can strengthen relationships too, if they are emotionally evocative. Framed photographs and engraved jewelry are two examples. She also points to material gifts that relate back to an experience. A CD from a concert that was enjoyed together can mimic the effect of the concert itself.

Chan's research also has implications for marketers. Experiential gifts, she says, can be packaged in ways that make them easier to consume – for example, tickets that don't have to be used on a specific day.

UNDERSTANDING EXTROVERTS

Achala Rodrigo of U of T Scarborough has won a Vanier Canada Graduate Scholarship – a prestigious SSHRC award of $50,000 a year for up to three years, which helps institutions attract and retain highly qualified doctoral students.

Rodrigo, a PhD candidate in Clinical Psychology, won the scholarship for his research into extraversion, combined with his leadership skills and academic excellence.

Extroverts, he says, seem able to regulate themselves well with others and "generally seem to have good outcomes in terms of interpersonal functioning." The optical imaging technology at U of T Scarborough's Clinical Neurosciences Laboratory can measure people's brain activity while they interact with others. Rodrigo is using it to examine associations between brain areas that serve aspects of self-control and interpersonal functioning.

"We want to look at all the facets that make up extraversion and then identify exactly how control relates to this personality trait," he says. The ultimate goal: "to understand how we can become better at navigating our social environment."

Sri Lankan–born Rodrigo entered U of T Scarborough as an undergraduate when he came to Canada 10 years ago. He says, "I have called U of T Scarborough home throughout my academic career." The graduate department of Psychological Clinical Science is only three years old, and Rodrigo is its second student to receive a Vanier.

28
LECTURE SERIES AND OTHER ON-CAMPUS RESEARCH EVENTS

OVER $12.8 MILLION IN TOTAL RESEARCH FUNDING, 2015–2016

MATH PROFESSORS MAKE THEIR MARK

Two U of T Scarborough mathematicians won prestigious awards this year. Professor Lisa Jeffrey is the 2017 Noether Lecturer and Professor John Friedlander is a joint recipient of the 2017 Doob Prize.

The Emmy Noether Lecture award and lecture series honours women who have made important and sustained contributions to the field. Being named as this year's Lecturer, Jeffrey was noted for her "contributions and leadership in symplectic and algebraic geometry, focused on connections with theoretical physics."

The Joseph L. Doob prize recognizes a book that makes a significant contribution to the research literature and promises to have a lasting impact. *Opera de Cribro*, by Professor Friedlander and his co-author, Henryk Iwaniec of Rutgers University, was praised for its "high-quality writing, clear explanations and numerous examples" to help readers understand the subject in depth.

The Noether award is co-sponsored by the Association for Women in Mathematics and the American Mathematical Society. The Doob Prize is presented every three years by the American Mathematical Society.

UPGRADING OUR RESEARCH SPACE

Innovative research at U of T Scarborough is getting a shot in the arm: $17.8 million in funding to upgrade labs in the Science Wing ("S-Wing") and vivarium. By the expected finish date – spring 2018 – 20 labs will be upgraded and several building infrastructure upgrades will be complete.

"These renovations will create state-of-the-art research space for our students, postdoctoral fellows and faculty," says Professor Bernie Kraatz, VP of Research. Kraatz, a renowned chemist himself, says, "I've experienced, first hand, the positive outcomes that investments like this can have in terms of innovation, research excellence and training the next generation of researchers."

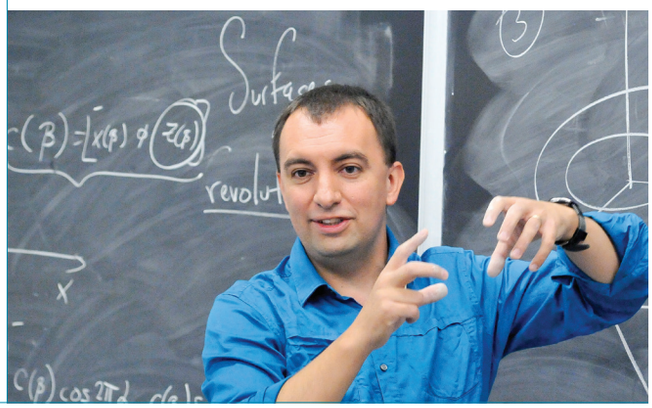
The lab upgrades will assist current and planned levels of research, improve efficiency and reduce environmental impact.

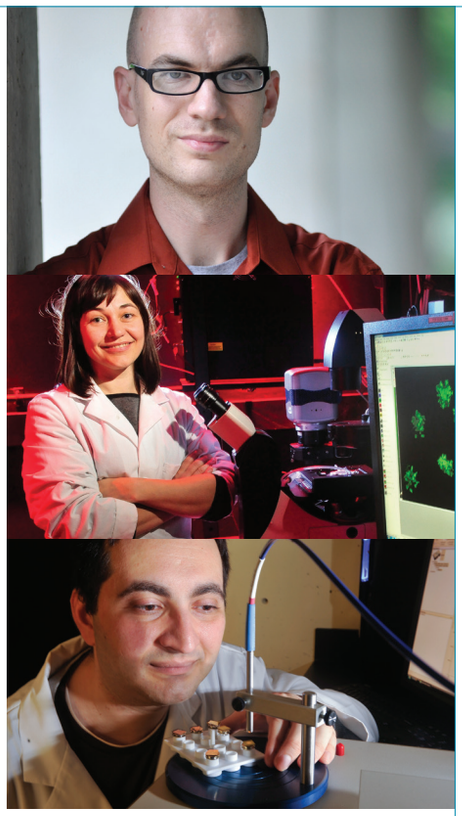
The funding is part of the Lab Innovation for Toronto (LIFT) project, which is distributing a total of $189.8 million across the three University of Toronto campuses. U of T is contributing $91.8 million, with the federal and provincial governments providing $83.7 million and $14.3 million, respectively.

The federal portion comes from the government's new $2-billion Post-Secondary Institutions Strategic Investment Fund.

100%

OF ACADEMIC DEPARTMENTS ARE RESEARCH ACTIVE





THREE PROFESSORS JOIN CRC RANKS

In December 2016, three new Canada Research Chairs (CRCs) were awarded to U of T Scarborough.

Vice-Principal of Research Bernie Kraatz says the three recipients – Brian Connelly of Management; Bebhinn Treanor of Biological Sciences; and Kagan Kerman of Physical & Environmental Sciences – are among the most promising researchers in their fields.

Brian Connelly's Chair is a first – the first CRC to be awarded to Management. It is in Integrative Perspectives on Personality. Connelly aims to improve on the personality tests that employers use in hiring and evaluation. At present, he says, these tests often favour manipulators and egoists. He is working to create more accurate, data-driven tests.

Bebhinn Treanor's Chair is in Spatially Resolved Biochemistry. Her research focuses on the processes that drive immune cell activation. She aims to fundamentally understand how immune response works, and how it can be controlled to develop therapies for lymphomas and autoimmune diseases.

Kagan Kerman's Chair is in Bioelectrochemistry of Proteins. His research applies state-of-the-art, rapid and affordable approaches to the study of Alzheimer's disease. He seeks to improve early detection methods, to enable early intervention and improve patient care.

In all, the University of Toronto was awarded 25 new CRCs this year (16 of them to women).

The CRC program was established in 2000 to advance Canadian research and development. About $265 million is invested each year to attract and retain the world's most promising minds.

A STANDOUT LECTURER ON CAMPUS

Lecturers at U of T Scarborough have an impressive range of experience, but David Onley stands out. His previous position: Lieutenant Governor of Ontario.

Since stepping down from that post in 2014, he has been a senior lecturer and distinguished visitor in the Department of Political Science. In 2015, he also served as U of T's ambassador for the Pan Am/Parapan Am Games.

Today, Onley looks forward to the 2017 Invictus Games, which will be held at the Toronto Pan Am Sports Centre. The Invictus is an international competition for ill or wounded veterans, created by Prince Henry of Wales.

As Lieutenant Governor, Onley represented Ontario at world sporting events. He was also on hand to see troops off to Afghanistan – and to meet returning, wounded vets. He is not one to glorify war. "I think the best aspects of the military include camaraderie, teamwork and discipline." These, he believes, "can be paralleled in sports, giving veterans another pathway back to a normal existence."

For Onley, teaching at the campus is a return to his roots. Before starting his rich and varied career – prior to his role in government, he spent 22 years in TV journalism – Onley graduated from the campus with an Honours BA Specialist certificate in political science. It was 1975, and he was student council president of what was then Scarborough College.

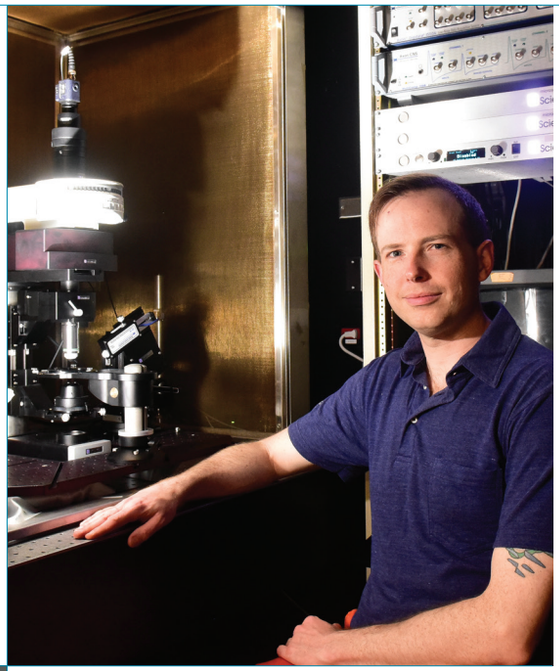
TO BETTER UNDERSTAND THE BRAIN

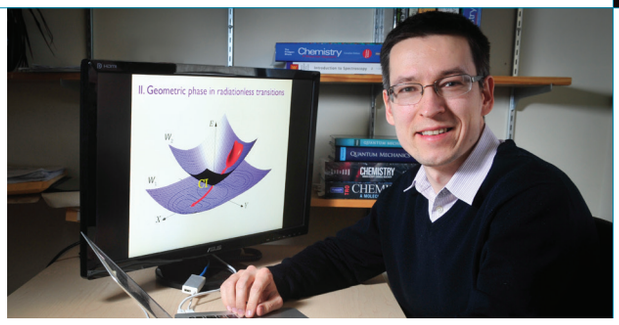
How does the brain encode perceptions? Blake Richards is developing tools that may lead to an answer. Richards, a biology professor at U of T Scarborough, is working with young researchers at Oxford University and at Korea University in Seoul. The research is funded by a Young Investigators' Grant from the Human Frontier Science Program.

The interdisciplinary investigation employs cellular electrophysiology, multiphoton imaging in mice and computational modelling, to explore how cells in the neocortex can control electrical activity in the brain.

Understanding this process could lead to new technologies for treating perceptual and mental disorders – for example, preventing hallucinations in people with schizophrenia.

Young Investigators' Grants are awarded for groundbreaking research by teams of scientists working in different countries and in different disciplines.



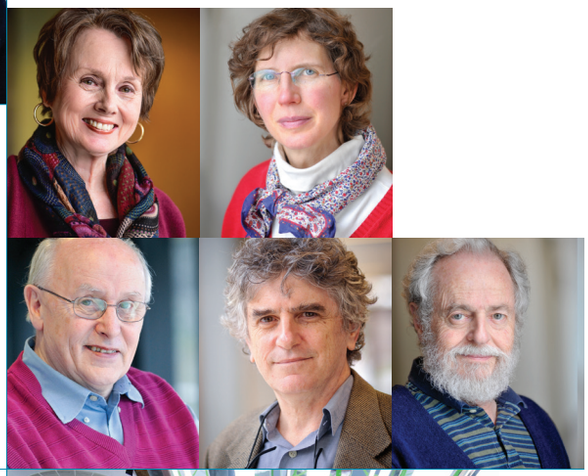


2015 SLOAN RESEARCH FELLOWSHIP, ALFRED P. SLOAN FOUNDATION

Artur Izmaylov,
Physical & Environmental Sciences

ALBERT BERRY PRIZE, CANADIAN DEVELOPMENT ECONOMICS STUDY GROUP

Marco Gonzalez-Navarro, Management



ROYAL SOCIETY OF CANADA

FELLOWS

Judith Teichman, Political Science
Lisa Jeffrey, Computer & Mathematical Sciences
John Kennedy, Psychology
Michael Lambek, Anthropology
John Friedlander, Computer & Mathematical Sciences

MEMBER, COLLEGE OF NEW SCHOLARS, ARTISTS AND SCIENTISTS

Natalie Rothman, Historical and Cultural Studies

IMPROVING RICE OUTPUT

A new technology – a soil fertility sensor – will help rice farmers in the developing world improve their productivity. Herbert Kronzucker of the Canadian Centre for World Hunger Research (CCWHR) at U of T Scarborough says the sensor will reduce costs for the farmers and also reduce pollution.

The CCWHR is partnering with the Centre for Global Engineering and the Dalla Lana School of Public Health on the sensor, which is still in early development.

It's often hard for the farmers to afford fertilizer, explains Kronzucker, and to know how much is needed. The sensor, based on gold nanoparticles, will let them test their soil with colour-changing strips, similar to pH strips. They will then consult a mobile app to see if they need more or less of a specific nutrient.

Kronzucker, who founded and directs the CCWHR, was recently named a U of T Distinguished Professor. He points to issues around nitrogen. It is one of the three main necessary nutrients, he says, "but it also costs the most to produce, and, in a rice field, about 50 to 70 per cent of it doesn't even reach the plant."

Excess nitrogen contaminates watersheds, leaches into groundwater, harms aquatic life and causes greenhouse gas emissions.

The sensor project is supported by the Dean's Strategic Fund, U of T Faculty of Applied Science & Engineering.

EARLY RESEARCH AWARD, ONTARIO MINISTRY OF RESEARCH AND INNOVATION

Brian Connelly, Management

Patrick McGowan, Biological Sciences

Anthony Ruocco, Psychology

E.R. WARD NEALE MEDAL, GEOLOGICAL ASSOCIATION OF CANADA

Nick Eyles, Physical & Environmental Sciences

INAUGURAL P.M. HUANG AWARD, INTERNATIONAL UNION OF SOIL SCIENCES

Myrna Simpson, Physical & Environmental Sciences

ENGINEERING–ENVIRONMENTAL STUDIES PROGRAM'S FIRST GRADUATES

The spring 2016 convocation at U of T Scarborough included a first: Chinmaya Bhatt and Jonathan Stokes were the first students ever to graduate with both an Honours Bachelor degree in Environmental Science and a Master of Engineering.

They had taken a combined program that lets environmental science students complete their undergraduate degree concurrently with a Master of Engineering degree in either Chemical Engineering and Applied Chemistry *or* Civil Engineering. They do the full requirements of both a BSc and an MEng, all within five years, and come out with both degrees.

"When applying," says Stokes, "I thought, 'what a unique opportunity to take engineering, when you're not an engineer.' It has allowed me to be part of a community I would not traditionally be exposed to."

The program is designed to get students to think differently, by exposing them to dramatically different academic perspectives.

"In science you identify problems," says Bhatt, "and in engineering you find ways to solve them."

The graduates enter the workforce specialized and equipped to tackle environmental challenges.

U of T Scarborough now offers a similar combined program in Mental Health Studies and Social Work, and other potential combinations are being explored.

POETRY POSITS ALTERNATE HISTORIES

Poets have long been writing "occasional poems" – marking births, deaths, victories, etc. But Daniel Scott Tysdal has been marking imaginary events instead. In his latest collection, *Fauxccasional Poems*, the Iroquois colonize Europe and the crew of the Enola Gay refuse to drop the bomb.

Tysdal, assistant professor, Teaching Stream, Department of English, also created five videos to accompany the book. The videos introduce fauxccasional poetry and expand on the idea of speculative events and the alternative universes they create.

"There's an escapist element to the poems," he says, "a quality of hope and regret that runs through them." While most of them involve historical events, a few touch on personal themes. There is one poem for a friend who committed suicide and one about countering depression through a writing adventure with students.

Published by Goose Lane Editions, *Fauxccasional Poems* made the CBC Books list of hottest poetry collections for 2015. Tysdal's other books include a guide to writing poetry, published by Oxford University Press in 2014.

Why fauxccasional poetry? Why now?

Says Tysdal: "There's an overriding desire – and I think this is something shared by all humanity – to create a better world. In order to imagine a better world we sometimes need to take events and flip them around to offer a different perspective."

> "In order to imagine a better world we sometimes need to take events and flip them around to offer a different perspective."
>
> *Daniel Scott Tysdal*

CANADA RESEARCH CHAIRS

Maydianne Andrade, Integrative Behavioural Ecology

Daniel Bender, Global Culture

Marney Isaac, Agroecosystems and Development

Herbert Kronzucker, Systems Biology of Plant Nutrition and Ion Transport

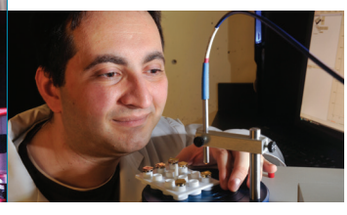
Michael Lambek, Anthropology of Ethical Life

Bianca Schroeder, Data Centre Technologies

Brian Connelly, Integrative Perspectives on Personality

Bebhinn Treanor, Spatially Resolved Biochemistry

Kagan Kerman, Bioelectrochemistry of Proteins



WHY THEATRE MATTERS

Why theatre now? In a recently launched book, 19 artists and scholars reply. *In Defence of Theatre: Aesthetic Practices and Social Interventions* is co-edited by Professor Barry Freeman of U of T Scarborough and Professor Kathleen Gallagher of U of T.

Freeman directs the Theatre and Performance Studies (TAPS) program. In his own essay in the book, he writes that theatre allows people to model new ways of living together. "It helps us imagine that there is a 'we' in the first place – we can feel the fellow feeling of an audience, we can pay very careful attention to others' stories, and we can imagine an experience beyond ourselves."

The book's contributors are Canadian academics and theatre artists, diverse in terms of gender, cultural background, region, professional orientation and career stage.

Overall, says Freeman, "the book clearly shows that theatre is on the move." He adds that U of T Scarborough's program reflects this. TAPS still stages plays, he says, and studies theatre history and traditions. "But, more and more, we are interested in how theatre interfaces in imaginative ways with other fields. We're further opening up to applied theatre and always keen to collaborate with other faculty and students from across campus."

ARTS AND THE CITY

Dan Silver, a sociologist at U of T Scarborough, is connecting the dots between the arts and city politics. He says there are two ways to view the city: in terms of unity or plurality.

The former, he says, corresponds to a view from the centre. "Everything else becomes simply 'not from the centre.'" The latter offers "many different and overlapping views about what the city is and what it means."

In Toronto, Silver says, artists are increasingly concentrated in certain neighbourhoods, mostly in the centre. The same with arts organizations and funding. There are positive aspects – e.g., a dense neighbourhood culture that sparks creativity and collaboration – but "the arts become more unilaterally associated with this one scene," he says, with a "core-centric perspective: that of the downtown urban cosmopolitan."

The connection with politics? To predict which areas will vote in a "downtownish" way versus a "suburbanish" way, says Silver, one significant factor is the number of artists. "This can make it challenging to grow arts communities outside the core."

Can artists create a more pluralistic Toronto? Silver believes the key is "to become aware of each other and start talking to each other more." Working in a pluralistic direction, he says, can create "new ways to experience the city and potentially bridge its divides."

PAPER OR PLASTIC?

Going cashless? It comes at a price. So warns Avni Shah, assistant professor, Department of Management.

With colleagues at Duke University and the University of North Carolina at Chapel Hill, Shah conducted two experiments. In one, people bought coffee mugs with either cash or credit, then were asked to sell them back at a price of their choosing. Those who used cash named a higher price and reported more emotional attachment to the purchase.

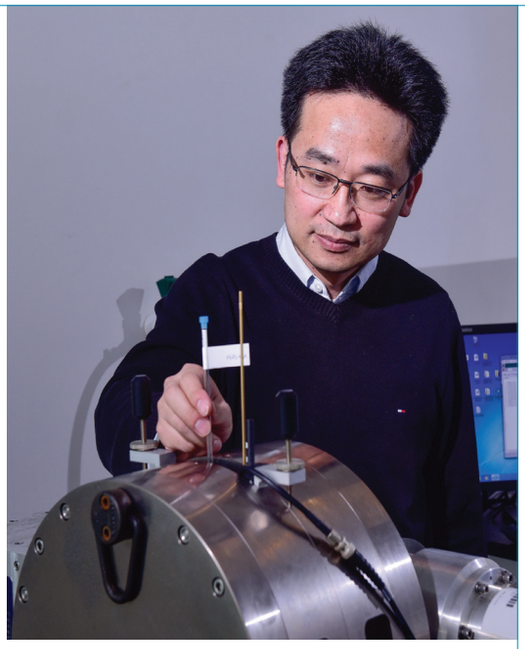
In the second, people received either cash or a voucher to donate to one of three charities. Those who donated cash felt more connected to their chosen charity.

Shah says it comes down to "pain of payment." Parting with cash "feels more painful than paying by cheque, which feels more painful than paying by card, and so on."

As we become increasingly paperless – making purchases via cellphone or smartwatch – Shah is concerned about the implications. "If consumers are feeling less connected to the products they're already buying, just add easier access to credit and higher consumer debt levels and it's a toxic combination."

Shah points to Interac commercials that praise cash over credit, and mobile apps that remind you of purchases you've made. These, she says, should be encouraged. "They can help consumers make more careful, deliberate and meaningful purchases."

> "[Parting with cash] feels more painful than paying by cheque, which feels more painful than paying by card, and so on."
>
> *Avni Shah*



ACCURATE MEASUREMENTS IMPROVE DIAGNOSES

Xiao-an Zhang and his team have developed a sensor that measures pH levels with greater accuracy. The immediate goal is for use in medical imaging, to help diagnose conditions such as cancer.

"Being able to detect pH levels in real time is crucial," says Zhang, a U of T Scarborough chemistry professor. Low pH has been linked to conditions such as cancer, cystic fibrosis and ischemia. "You can use a pH signal to diagnose a disease and also monitor the effectiveness of a therapy."

The new sensor uses nuclear magnetic resonance (NMR) spectroscopy, a noninvasive technology that provides a detailed look at molecules at the atomic level. But it is hard to get a sufficiently accurate, real time pH value using conventional NMR timescales, notes Zhang. This is because a pH value is a measurement of the activity of protons – tiny charged particles that tend to attach to other molecules. They are hard to measure in tissues because they move rapidly.

Zhang's sensor features a slow proton exchange mechanism. "The probe we developed can slow down proton movement and view protons at various states," he says, "for a more sensitive and accurate measurement."

The new sensor was tested on oocytes (immature egg cells) in Professor Andre Simpson's lab and on E. coli cells in U of T Professor Deborah Zamble's lab.

In future, it may also have applications in environmental science, biology and food production and quality control.

RESEARCH FUNDING, 2015–2016

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	TITLE OF RESEARCH PROJECT	AWARDED
Aggarwal, Pankaj	Department of Management	Social Sciences & Humanities Research Council (SSHRC)	Insight Grant	Of people, animals and things: Anthropomorphizing brands and dehumanizing people	**$23,287.00**
Andrade, Maydianne	Department of Biological Sciences	Natural Sciences and Engineering Research Council of Canada (NSERC)	Discovery Grants	Understanding links among mating systems, plasticity and divergence using black widow spiders	**$41,000.00**
Archontitsis, Georgios	Department of Physical & Environmental Sciences	Environment Canada	Operating Grant	A Bayesian ensemble watershed modelling strategy to support adaptive management implementation in the southeastern Georgian Bay area	**$84,000.00**
Archontitsis, Georgios	Department of Physical & Environmental Sciences	Environment Canada	Operating Grant	Towards linking water level fluctuations with water quality in south-eastern Georgian Bay: An adaptive management approach	**$72,000.00**
Archontitsis, Georgios	Department of Physical & Environmental Sciences	Environment Canada	Great Lakes University Research Fund	Eutrophication risk assessment and adaptive management implementation in the Hamilton Harbour AOC	**$68,000.00**
Archontitsis, Georgios	Department of Physical & Environmental Sciences	Environment Canada	Operating Grant	Integrated watershed-receiving waterbody model for Lake Simcoe	**$62,500.00**
Archontitsis, Georgios	Department of 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**
Archontitsis, Georgios	Department of Physical & Environmental Sciences	Environment Canada	Operating Grant	Towards the development of an adaptive management strategy of the Peary caribou population: A Bayesian approach	**$60,000.00**
Archontitsis, Georgios	Department of Physical & Environmental Sciences	Mathematics of Information Technology and Complex Systems (MITACS)	MITACS-Elevate (PDF)	Eutrophication risk assessment and adaptive management implementation in Lake Simcoe: Integration of the watershed processes with the receiving waterbody	**$57,500.00**
Archontitsis, Georgios	Department of Physical & Environmental Sciences	MITACS	MITACS-Elevate (PDF)	Guiding delisting decisions in the Great Lakes area: Development of a Bayesian risk assessment methodology	**$57,500.00**
Archontitsis, Georgios	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Towards the development of integrated modelling frameworks in aquatic biogeochemistry: A Bayesian synthesis of empirical knowledge and model predictions	**$38,000.00**
Averbakh, Igor	Department of Management	NSERC	Discovery Grants	Non-classical discrete optimization problems	**$21,000.00**
Birn, Anne-Emanuelle	Department of Political Science	Canadian Institutes of Health Research (CIHR)	Open Operating	Health diplomacy at a crossroads: Social justice-oriented south-south cooperation in a time of global change	**$99,394.00**
Boonstra, Rudy	Department of Biological Sciences	Aboriginal Affairs and Northern Development Canada	Northern Scientific Training Program (Operating)	Epigenetic inheritance and population growth: The impact of predator-induced maternal stress on the snowshoe hare cycle	**$3,200.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	TITLE OF RESEARCH PROJECT	AWARDED
Boonstra, Rudy	Department of Biological Sciences	Aboriginal Affairs and Northern Development Canada	Northern Scientific Training Program (Operating)	Hair cortisol as a non-invasive index of stress in wild snowshoe hares	**$2,000.00**
Boonstra, Rudy	Department of Biological Sciences	NSERC	Discovery Grants	The role of stress in natural populations	**$56,000.00**
Boonstra, Rudy	Department of Biological Sciences	NSERC	Discovery Grant – Northern Research Supplement	The role of stress in natural populations	**$15,000.00**
Boonstra, Rudy	Department of Biological Sciences	Office of Naval Research	Research	Quantifying stress in marine mammals: Measuring biologically active cortisol in cetaceans and pinnipeds	**$138,310.31**
Borins, Sandford	Department of Management	SSHRC	Insight Grant	Extending the reach of a methodology for studying narratives about politics and government	**$7,616.00**
Bowen, William	Department of Arts, Culture & Media	SSHRC	Aid to Scholarly Journals	Renaissance and Reformation (SSHRC Aid to Scholarly Journal)	**$29,402.00**
Bowen, William	Department of Arts, Culture & Media	SSHRC/University of Victoria	SSHRC MCRI Subgrant	Implementing new knowledge environments	**$6,000.00**
Brown, Ian	Department of Biological Sciences	Canada Foundation for Innovation (CFI)	Leading Edge Fund Program	Centre for Neurobiology of Stress (CNS)	**$187,678.00**
Brown, Ian	Department of Biological Sciences	NSERC	Discovery Grants	Heat shock proteins in the nervous system	**$45,000.00**
Buchweitz, Ragnar-Olaf	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Applications of homological algebra in algebra, geometry and physics	**$40,000.00**
Buckley, Michelle	Department of Human Geography	Connaught Fund	New Researcher Award	Migrants' experiences in the Thai construction sector: regulation, mobility and gender in Chiang Mai's building trades	**$10,000.00**
Burchell, Kenzie	Department of Arts, Culture & Media	Connaught Fund	New Researcher Award	The social life of information abundance, data-mining, and news production	**$10,000.00**
Cadotte, Marc W.	Department of Biological Sciences	NSERC	Discovery Grants	Biodiversity and the delivery of ecosystem services in novel landscapes	**$32,000.00**
Cadotte, Marc W.	Department of Biological Sciences	TD Foundation	Discovery Grants	TD limited term professorship in urban forest conservation and biology	**$166,666.66**
Campbell, Malcolm	Department of Biological Sciences	NSERC	Discovery Grants	Comparative genomics of plant resource allocation	**$56,000.00**
Campolieti, Michele	Department of Management	SSHRC	Standard Research Grants	Youths and the labour market	**$17,609.00**
Cant, Jonathan S.	Department of Psychology	NSERC	Discovery Grants	The neural substrates of object ensemble processing in the human brain	**$29,000.00**
Cen, Ling	Department of Management	SSHRC	Insight Grant	Rationalize the irrationality: Diffusion of misvaluation through economic links	**$17,665.00**
Chan, Leslie	Centre for Critical Development Studies	International Development Research Centre	Science & Innovation – Information & Network	Catalysing open and collaborative research to address development challenges	**$96,100.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	TITLE OF RESEARCH PROJECT	AWARDED
Chen, Li	Department of Historical & Cultural Studies	SSHRC	Standard Research Grants	Confucian literati as jurists: power, knowledge and legal culture in late imperial China 1600–1900	**$19,162.00**
Childress, Christopher Clayton	Department of Sociology	Connaught Fund	New Researcher Award	Diversity, the Booker Prize, and long term literary acclaim	**$10,000.00**
Chun, Jennifer J.	Department of Sociology	SSHRC	Insight Grant	Protesting Publics in South Korea	**$46,215.00**
Chun, Jennifer J.	Department of Sociology	SSHRC	University of Toronto Excellence Award – SSH	Organizing workers in informal and precarious work: building a global network	**$6,000.00**
Cire, Andre Augusto	Department of Management	NSERC	Discovery Grants	Optimization with decision diagrams: Theory and applications	**$24,000.00**
Cochrane, Christopher Brian	Department of Political Science	Higher Education Quality Council of Ontario	Operating Service Agreement	What's the story? Media coverage of PSE in Ontario	**$29,142.96**
Connelly, Brian Samuel	Department of Management	Ontario Ministry of Research, Innovation and Science	Early Research Award	Broadening the horizons of personality: The Scarborough multi-rater personality project (SMuRPP)	**$25,666.68**
Connelly, Brian Samuel	Department of Management	SSHRC	Insight Grant	Lying, boasting, self-exalting: Using observer reports of personality to identify and remedy applicant faking	**$34,500.00**
Cree, George Scott	Department of Psychology	NSERC	Discovery Grants	Semantic cognition: Behavioural, computational and EEG/ERP based analyses of semantic content, structure, and processing	**$27,000.00**
Dewar, Genevieve	Department of Anthropology	SSHRC	Insight Grant	Human landscape use during MIS 3 and MIS 2 in southern Africa	**$67,747.00**
Dittrich, Maria B.	Department of Physical & Environmental Sciences	Environment Canada	Great Lakes University Research Fund	Bay of Quinte: sediment nutrient fluxes, sediment oxygen demand and links to harmful algal blooms	**$95,375.00**
Dittrich, Maria B.	Department of Physical & Environmental Sciences	Environment Canada	Great Lakes University Research Fund	Sediment Phosphorus Release and Harmful Cyanobacterial Blooms in South Eastern Georgian Bay: Field and diageneteic modelling study	**$79,200.00**
Dittrich, Maria B.	Department of Physical & Environmental Sciences	MITACS	Accelerate Ontario	Assessing nutrient retention in sediments and harmful algal blooms in the Bay of Quinte by field, laboratory and modelling studies	**$45,000.00**
Dittrich, Maria B.	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Organo-mineralization in microbial mats: linking field, laboratory and metagenomic studies	**$22,000.00**
Dittrich, Maria B.	Department of Physical & Environmental Sciences	Ontario Ministry of the Environment and Climate Change	Research Grants	Bay of Quinte: sediment nutrient fluxes, sediment oxygen demand and links to harmful algal blooms: modelling part	**$10,000.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	TITLE OF RESEARCH PROJECT	AWARDED
Dittrich, Maria B.	Department of Physical & Environmental Sciences	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	**$37,773.00**
Donaldson, D. James	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Atmospheric and Interfacial Reaction Dynamics	**$43,000.00**
Enright, Wayne	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	The development of reliable numerical software for the investigation of systems of differential equations	**$20,000.00**
Erb, Suzanne	Department of Psychology	CIHR	Canada Graduate Scholarships – Doctoral	Doctoral – Aya Sasaki – The role of genotype and epigenotype in serotonin transporter effects on depression and anxiety-related behaviours	**$15,000.00**
Evans, Michael	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Bayesian statistical inference and computation	**$15,000.00**
Evans, Michael	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Bayesian inference, model checking, and checking for prior-data conflict, and inferences via Bayes factors and relative belief ratios	**$15,000.00**
Eyles, Nicholas	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	The geology of glaciated sedimentary basins	**$33,000.00**
Farber, Steven	Department of Human Geography	Connaught Fund	New Researcher Award	Leveraging open data and high performance computing to usher in a new era of multi-modal accessibility metrics	**$10,000.00**
Farber, Steven	Department of Human Geography	NSF/University of Utah	National Science Foundation (NSF) Subgrant	Interaction potential and the social and economic vibrancy of metropolitan regions	**$12,863.40**
Fleet, David James	Department of Computer & Mathematical Sciences	MITACS	Accelerate Ontario	Improving video based heart rate estimation for affective computing	**$15,000.00**
Fleet, David James	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Looking at people and large-scale vision	**$73,000.00**
Franco, April	Department of Management	SSHRC	Insight Grant	The effects of employee mobility on entrepreneurial ventures, employment growth and regional prosperity	**$50,250.00**
Friedlander, John	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Research in number theory	**$38,000.00**
Fulthorpe, Roberta	Department of Physical & Environmental Sciences	MITACS	Accelerate Ontario	Evaluating models for assessing organic chemicals for human health and ecological exposure and risk assessment	**$30,000.00**
Fulthorpe, Roberta	Department of Physical & Environmental Sciences	MITACS	Accelerate Ontario	The avenues and effects of mould and microbial growth in condominiums and apartment buildings	**$15,000.00**
Fulthorpe, Roberta	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Catabolic capabilities of endophytic bacteria	**$34,000.00**
Gazzarrini, Sonia	Department of Biological Sciences	NSERC	Discovery Grants	Regulatory networks during developmental phase transitions and abiotic stresses	**$27,000.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	TITLE OF RESEARCH PROJECT	AWARDED
Goldstein, Michael	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Integrable systems of PDE with quasi-periodic initial data	**$20,000.00**
Gonzalez-Navarro, Marco	Department of Management	Connaught Fund	New Researcher Award	Subways and urban growth	**$9,690.00**
Gonzalez-Navarro, Marco	Department of Management	SSHRC	Insight Grant	Subway systems and urban air pollution	**$17,998.00**
Gough, William	Department of Physical & Environmental Sciences	Network of Centres of Excellence of Canada: ArcticNet	Discovery Grants	Community vulnerability, resilience and adaptation to climate change in the Canadian Arctic	**$10,000.00**
Gough, William	Department of Physical & Environmental Sciences	NSERC	Operating Grant	Climate change impacts in the Hudson Bay region	**$21,800.00**
Han, Ju Hui	Department of Human Geography	Max Planck Institute for the Study of Religious and Ethnic Diversity	Operating Grant	Urban aspirations in Seoul: Religion and megacities in comparative studies	**$31,937.50**
Harrison, Rene	Department of Biological Sciences	Canadian Space Agency	Open Operating	Using simulated microgravity to understand bone loss and develop countermeasures in space	**$62,700.00**
Harrison, Rene	Department of Biological Sciences	CIHR	Operating Grant	Subversion of host epithelial cell processes by chlamydia infection	**$122,868.00**
Harrison, Rene	Department of Biological Sciences	NSERC	Discovery Grants	Trafficking of procollagen in osteoblasts	**$32,000.00**
Hasler, Michael Nicolas	Department of Management	Connaught Fund	New Researcher Award	Model disagreement and the term structures of risk premia and volatility	**$9,980.00**
Hirst, Graeme	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Applied computational models of discourse, argument, and text	**$54,000.00**
Hoffmann, Matthew	Department of Political Science	SSHRC	Insight Grant	Transformative policy pathways toward decarbonization	**$89,900.00**
Howard, Kenneth	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Impacts of climate change on groundwater in coastal cities	**$22,000.00**
Hubner, Karolina	Department of Philosophy	SSHRC	Insight Grant	Spinoza on Being	**$12,176.00**
Hutcherson, Cendri Anne Claire	Department of Psychology	SSHRC	Insight Grant	Why are people generous: New model-based approaches to long-standing questions	**$19,946.00**
Inbar, Yoel	Department of Psychology	Connaught Fund	New Researcher Award	Moralized opposition to genetically modified food	**$10,000.00**
Inzlicht, Michael	Department of Psychology	NSERC	Discovery Grants	Is negative affect necessary for cognitive control? Toward an affect alarm framework of control	**$33,386.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	TITLE OF RESEARCH PROJECT	AWARDED
Inzlicht, Michael	Department of Psychology	SSHRC	Insight Grant	What is ego depletion? Testing the process model of self-control failure	**$55,485.00**
Isaac, Marney Elizabeth	Department of Physical & Environmental Sciences	CFI	NSERC Tier 2 – Canada Research Chair	Carbon and nitrogen analysis in agroecology	**$8,181.00**
Isaac, Marney Elizabeth	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Biophysical interactions in agricultural environments across edaphic gradients	**$22,000.00**
Ito Lee, Rutsuko	Department of Psychology	NSERC	Discovery Grants	Delineating cortico-limbic-striatal circuits in reward and punishment: segregation and integration	**$24,000.00**
Izmaylov, Artur	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	New computational approaches for quantum dynamics of large systems	**$35,000.00**
Jeffrey, Lisa	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Symplectic geometry	**$42,000.00**
Joordens, Steve	Department of Psychology	Enable Training and Consulting Inc.	Research Contract	Assessing the pedagogical values of LabMS	**$18,000.00**
Joordens, Steve	Department of Psychology	NSERC	Discovery Grants	The perceptual fusion procedure: a new tool of word recognition	**$24,000.00**
Kang, Yoon Jung	Centre for French & Linguistics	SSHRC	Insight Grant	Bilingualism, perceptual drift, and regularization of loanwords	**$61,687.00**
Kang, Yoon Jung	Centre for French & Linguistics	SSHRC	University of Toronto Excellence Award – SSH	Bilingualism, perceptual drift, and regularization of loanwords	**$6,000.00**
Kepe, Thembela	Department of Human Geography	SSHRC	Insight Grant	More money for fewer people: Exploring the role of the state, market and community in South Africa's land redistribution strategy	**$54,550.00**
Kerman, Kagan	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Bioelectrochemistry of surfaces and interfaces	**$45,000.00**
Kingston, Paul	Department of Political Science	SSHRC/University of British Columbia	SSHRC PG Subgrant	Participedia: a global partnership to create and mobilize knowledge about democratic innovations	**$7,500.00**
Kohn, Margaret	Department of Political Science	SSHRC	Insight Grant	Spaces of civil disobedience: From sanctuary to occupy	**$23,200.00**
Kohn, Margaret	Department of Political Science	SSHRC	Connection Grant	Approaches to public goods: solidarity and social justice	**$10,952.00**
Koudas, Nick	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Efficient query processing and optimization for big data workloads	**$60,000.00**
Koudas, Nick	Department of Computer & Mathematical Sciences	NSERC	Collaborative R&D Grants (operating)	An incremental data management system for big data analytics	**$41,620.00**
Kraatz, Heinz-Bernhard	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Exploring the chemistry of ferrocene bioconjugates	**$90,000.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	TITLE OF RESEARCH PROJECT	AWARDED
Kraatz, Heinz-Bernhard	Department of Physical & Environmental Sciences	NSERC/Queen's University	NSERC Strategic Grant Subgrant	Supported catalysts for sustainable water oxidation: Completing the cycle for generation of hydrogen from water.	**$30,000.00**
Krashinsky, Harry	Department of Management	SSHRC	University of Toronto Excellence Award – SSH	Was CARS a total clunker?	**$6,000.00**
Kronzucker, Herbert	Department of Biological Sciences	NSERC	Discovery Grants	Physiology and toxicology of ion fluxes in plant roots	**$59,000.00**
Landolt, Patricia	Department of Sociology	SSHRC/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	**$5,000.00**
Li, Nan	Department of Management	Connaught Fund	New Researcher Award	Labour skill disclosure and implications for innovation and growth	**$10,000.00**
Lovejoy, Nathan Richard	Department of Biological Sciences	CFI	Leaders Opportunity Fund	Establishment of a laboratory for research on the evolutionary genetics of animal behaviour	**$160,328.38**
Lovejoy, Nathan Richard	Department of Biological Sciences	NSERC	Discovery Grants	Phylogenetics, biogeography, and evolution of fishes	**$32,000.00**
Lovejoy, Nathan Richard	Department of Biological Sciences	NSERC	University of Toronto Excellence Award – NSE	Ontogeny and physiology of muscle biomechanics in durophagous stingrays	**$4,875.00**
Lovejoy, Nathan Richard	Department of Biological Sciences	Ontario Ministry of Research, Innovation and Science	Leaders Opportunity Fund	Establishment of a laboratory for research on the evolutionary genetics of animal behaviour	**$160,327.42**
Lovejoy, Nathan Richard	Department of Biological Sciences	NSF/University of Central Florida	National Science Foundation (NSF) Subgrant	Aquatic faunal survey of the lower Amazon	**$53,029.42**
Lowman, Julian	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Planetary mantle dynamics	**$30,000.00**
Maclellan, James	Department of Physical & Environmental Sciences	MITACS	Accelerate Ontario	Development of innovative approaches to assess health effects of transportation infrastructure projects	**$15,000.00**
Mandrak, Nicholas	Department of Biological Sciences	CFI	John R. Evans Leaders Fund	Biodiversity and conservation of freshwater fishes laboratory	**$80,000.00**
Mandrak, Nicholas	Department of Biological Sciences	CFI	John R. Evans Leaders Fund	Biodiversity and conservation of freshwater fishes	**$24,000.00**
Mandrak, Nicholas	Department of Biological Sciences	Fisheries & Oceans Canada	Operating Grant	DFO-UT Academic Research Contribution Agreement	**$150,000.00**
Mandrak, Nicholas	Department of Biological Sciences	MITACS	Accelerate Ontario	Transportation infrastructure improvements for wildlife protection and economic productivity	**$15,000.00**
Mandrak, Nicholas	Department of Biological Sciences	NSERC	Discovery Grants	Biodiversity, biogeography, and conservation of freshwater fishes	**$27,000.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	TITLE OF RESEARCH PROJECT	AWARDED
Mandrak, Nicholas	Department of Biological Sciences	Ontario Ministry of Research, Innovation and Science	John R. Evans Leaders Fund	Biodiversity and conservation of freshwater fishes laboratory	**$80,000.00**
Mandrak, Nicholas	Department of Biological Sciences	Ontario Ministry of the Environment and Climate Change	Operating Grant	Science in support of protocol development for detection and monitoring of wetland fishes at risk	**$22,500.00**
Mandrak, Nicholas	Department of Biological Sciences	NSERC/University of Guelph	NSERC Collaborative Project Subgrant	Multiple stressors and cumulative effects in the Great Lakes	**$76,600.00**
Mason, Andrew	Department of Biological Sciences	NSERC	Discovery Grants	Sensory processing, perception and communication in simple nervous systems	**$40,000.00**
Mccarthy, Julie	Department of Management	SSHRC	Insight Grant	Personnel selection through the lens of job applicants: Leveraging test reactions	**$27,235.00**
Mcelheran, Kristina S.	Department of Management	Connaught Fund	New Researcher Award	Information technology and productivity in firms	**$10,000.00**
Mcgowan, Patrick	Department of Biological Sciences	NSERC	Discovery Grants	Perinatal stress and brain function	**$31,000.00**
Mcgowan, Patrick	Department of Biological Sciences	Ontario Ministry of Research, Innovation and Science	Early Research Award	The role of stress in the biology of gene-environment interactions	**$110,528.12**
Mcgowan, Patrick	Department of Biological Sciences	Solve ME/CFS Initiative	Subgrant Falk Med Research Trust	Delineating ME/CFS heterogeneity using the DNA methylome	**$314,665.46**
Mcgowan, Patrick	Department of Biological Sciences	U.S. Dept of Defence	Gulf War Illness Research Program	Epigenetic mediation of endocrine and immune response in an animal model of gulf war illness	**$194,634.83**
Mcleod, Kenneth	Department of Arts, Culture & Media	SSHRC	Insight Grant	Driving identity: popular music and automobile culture	**$12,778.00**
Menou, Kristen	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Atmospheres and climates of exoplanets	**$45,000.00**
Mitchell, Carl	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Hydro-biogeochemical interactions and contaminant transport in urban ecosystems	**$33,000.00**
Mitchell, Carl	Department of Physical & Environmental Sciences	University of Minnesota	Minnesota Pollution Control Agency Subcontract	Identifying causes of high mercury in fish	**$112,842.00**
Mollett, Sharlene	Department of Human Geography	SSHRC	Insight Development Grant	Gender and the making of residential tourism space in Panama	**$27,440.00**
Molloy, Michael	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Probabilistic graph theory and random constraint satisfaction problems	**$62,000.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	TITLE OF RESEARCH PROJECT	AWARDED
Molnar, Peter Kalman	Department of Biological Sciences	Network of Centres of Excellence of Canada: ArcticNet	Operating Grant	Monitoring and managing muskox health for food security and ecosystem and socio-economic resilience: integrating traditional, local, and scientific knowledge	**$6,000.00**
Monahan, Philip Joseph	Centre for French & Linguistics	SSHRC	Insight Development Grant	Exploring speech sound representations: Features and categories in monolingual and bilingual speakers	**$31,658.00**
Nash, Joanne	Department of Biological Sciences	Glaucoma Research Society	Operating Grant	Determination of the neuroprotective potential of TCAP-1 in an in vitro model of glaucoma	**$15,000.00**
Nash, Joanne	Department of Biological Sciences	NSERC	Discovery Grants	PSD-MAGUKs in the striatum	**$36,000.00**
Nash, Joanne	Department of Biological Sciences	NSERC	Discovery Grants	Understanding the molecular mechanisms underlying motor control	**$36,000.00**
Nash, Joanne	Department of Biological Sciences	The Michael J. Fox Foundation	Operating Grant	Further validation of SIRT3 as a disease modifying agent in Parkinson's disease	**$156,038.15**
Nestor, Adrian R.	Department of Psychology	NSERC	Discovery Accelerator Supplements	A neurocomputational investigation of human face processing	**$40,000.00**
Nestor, Adrian R.	Department of Psychology	NSERC	Discovery Grants	A neurocomputational investigation of human face processing	**$31,000.00**
Niemeier, Matthias	Department of Psychology	NSERC	Discovery Grants	Neural and cognitive mechanisms of predictive coding and their interactions for perception and action	**$28,000.00**
Pilcher, Jeffrey	Department of Historical & Cultural Studies	SSHRC	Insight Grant	Tasting the global city: Multicultural histories of Toronto's cuisines	**$13,570.00**
Reid, Stephen	Department of Biological Sciences	NSERC	Discovery Grants	Respiratory control systems in amphibians	**$25,000.00**
Rein, Hanno	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Formation of multi-planetary systems in the Kepler era	**$24,000.00**
Richards, Blake	Department of Biological Sciences	CFI	John R. Evans Leaders Fund	Towards an integrated picture of sensory learning in neural circuits	**$45,000.00**
Richards, Blake	Department of Biological Sciences	Human Frontier Science Program Organization	Young Investigators Grants	An integrated multi-level investigation of neural codes in sensory processing	**$154,616.16**
Richards, Blake	Department of Biological Sciences	NSERC	Discovery Grants	Uncovering the neurobiology of combined supervised and unsupervised learning	**$29,000.00**
Riggs, Charles	Department of Biological Sciences	NSERC	Discovery Grants	Structural and functional studies of nuclear organization, chromatin and chromosome behaviour during nuclear division	**$30,000.00**
Rosselet, Alan	Department of Computer & Mathematical Sciences	MITACS	Accelerate Ontario	Re-architecture of sidefx.com	**$30,000.00**
Roy, Daniel	Department of Computer & Mathematical Sciences	Amazon Develop Center Germany GmbH	Research Contract	Amazon Postdoc (Agreement #2015-1290)	**$88,156.77**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	TITLE OF RESEARCH PROJECT	AWARDED
Roy, Daniel	Department of Computer & Mathematical Sciences	Columbia University New York	Subgrant: U.S. Air Force Office of Scientific Research	Statistical models of graph and relational data from probabilistic symmetries	**$181,779.00**
Roy, Daniel	Department of Computer & Mathematical Sciences	Connaught Fund	New Researcher Award	Advancing Probabilistic Programming	**$10,000.00**
Roy, Daniel	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	NSERC Individual Discovery Grant	**$29,000.00**
Roy, Daniel	Department of Computer & Mathematical Sciences	The Royal Society of Canada	Newton International Fellowship	Newton Fellowship Alumni Fund	**$9,207.23**
Ruocco, Anthony Charles	Department of Psychology	CIHR	Open Operating	Neurocognitive intermediate phenotypes in borderline personality disorder: a family study	**$61,844.00**
Ruocco, Anthony Charles	Department of Psychology	CIHR	New Investigator Award	Isolating neurocognitive intermediate phenotypes in borderline personality disorder	**$60,000.00**
Ruocco, Anthony Charles	Department of Psychology	Ontario Ministry of Research, Innovation and Science	Early Research Award	Neural systems dysfunctions underlying impulse control in borderline personality disorder	**$140,000.00**
Salakhutdinov, Ruslan	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Learning hierarchical models: Theory and applications	**$20,000.00**
Schmuckler, Mark	Department of Psychology	NSERC	Discovery Grants	Perceptual motor coupling in obvious and non-obvious domains/Tonality and melody in music cognition	**$24,000.00**
Schroeder, Bianca	Department of Computer & Mathematical Sciences	NSERC	Discovery Accelerator Supplements	Reliable and energy-efficient next-generation data centres	**$40,000.00**
Schroeder, Bianca	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Reliable and energy-efficient next-generation data centres	**$36,000.00**
Schroeder, Bianca	Department of Computer & Mathematical Sciences	Ontario Ministry of Research, Innovation and Science	Early Research Award	Reliable and energy-efficient next-generation data centres	**$73,371.20**
Segal, Zindel	Department of Psychology	CIHR	Open Operating	Neural markers of depressive relapse vulnerability and their modification	**$84,469.00**
Segal, Zindel	Department of Psychology	National Institutes of Health	Operating Grant-R01	Reducing residual depressive symptoms with web-based mindful mood balance	**$1,013,158.85**
Silver, Michelle	Department of Anthropology	Connaught Fund	New Researcher Award	The Academic Physician Retirement Project	**$10,000.00**
Silver, Michelle	Department of Anthropology	MITACS	Accelerate Ontario	The Academic Physician Retirement Project	**$80,000.00**
Simpson, Andre	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Development of flow-based and magic angle spinning in-vivo NMR to understand environmental stress	**$68,000.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	TITLE OF RESEARCH PROJECT	AWARDED
Simpson, Andre	Department of Physical & Environmental Sciences	Ontario Ministry of the Environment and Climate Change	Research Grants	Understanding microcystin levels in Ontario	**$55,000.00**
Simpson, Myrna	Department of Physical & Environmental Sciences	Krembil Foundation	Operating Grant	Bioindicators research	**$266,250.00**
Simpson, Myrna	Department of Physical & Environmental Sciences	Network of Centres of Excellence of Canada: ArcticNet	Subgrant	Water security and quality in a changing Arctic	**$13,000.00**
Simpson, Myrna	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Molecular biogeochemistry of soil organic matter with environmental change	**$50,000.00**
Simpson, Myrna	Department of Physical & Environmental Sciences	NSERC	Discovery Accelerator Supplements	Molecular biogeochemistry of soil organic matter with environmental change	**$40,000.00**
Simpson, Myrna	Department of Physical & Environmental Sciences	Ontario Ministry of the Environment and Climate Change	Research Grants	Developing nuclear magnetic resonance and mass spectrometric techniques for Great Lakes exposure and effects assessments	**$74,700.00**
Simpson, Myrna	Department of Physical & Environmental Sciences	NSERC/Queen's University	NSERC Collaborative Research Project	Arctic Development and Adaptation to Permafrost in Transition (ADAPT)	**$10,000.00**
Simpson, Myrna	Department of Physical & Environmental Sciences	NSERC/University of British Columbia	NSERC Collaborative Research Project	The potential of retention trees to mitigate post-harvest soil carbon loss through reduction of root and soil organic matter decomposition mediated by the fungal community	**$22,000.00**
Skogstad, Grace	Department of Political Science	Network of Centres of Excellence of Canada: BioFuelNet	Operating Grant	Pathways to reducing policy uncertainty in sustainable biofuels governance	**$38,410.00**
Sorensen, Andre	Department of Human Geography	SSHRC	Insight Grant	Urbanization, planning and developmental states in comparative historical perspective	**$7,056.00**
Tanner, Julian	Department of Sociology	SSHRC	Insight Grant	Youth and Guns in Toronto	**$61,353.00**
Terebiznik, Mauricio	Department of Biological Sciences	AbCelex Technologies Inc.	Engage Grants Program	Characterization of the mechanism of action of nanobodies that interfere with the infection of chicken gut epithelial cells by salmonella	**$7,000.00**
Terebiznik, Mauricio	Department of Biological Sciences	NSERC	Discovery Grants	Phagocytosis filamentous targets	**$36,000.00**
Terebiznik, Mauricio	Department of Biological Sciences	NSERC	Engage Grants Program	Characterization of the mechanism of action of nanobodies that interfere with the infection of chicken gut epithelial cells by salmonella	**$25,000.00**
Terebiznik, Mauricio	Department of Biological Sciences	Ontario Lung Association	Operating Grant	Molecular mediators of the binding of Legionella pneumophila to lung epithelial cells	**$48,000.00**
Thiele, Tod	Department of Biological Sciences	CFI	John R. Evans Leaders Fund	Elucidating the structure and function of zebrafish sensorimotor circuits using optogenetic and behavioural approaches	**$337,560.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	TITLE OF RESEARCH PROJECT	AWARDED
Thiele, Tod	Department of Biological Sciences	CFI	John R. Evans Leaders Fund	Elucidating the structure and function of zebrafish sensorimotor circuits using optogenetic and behavioural approaches	**$101,268.00**
Thiele, Tod	Department of Biological Sciences	Ontario Ministry of Research, Innovation and Science	John R. Evans Leaders Fund	Elucidating the structure and function of zebrafish sensorimotor circuits using optogenetic and behavioural approaches	**$337,560.00**
Treanor, Bebhinn Lucy	Department of Biological Sciences	CIHR	Open Operating	Molecular mechanisms regulating B cell signalling and activation	**$120,896.00**
Treanor, Bebhinn Lucy	Department of Biological Sciences	CIHR	Request for Applications (RFA) Operating	Bhagirath Singh Early Career Award	**$25,000.00**
Treanor, Bebhinn Lucy	Department of Biological Sciences	NSERC	Discovery Grants	The role of glycan-gatectin interactions In regulating B cell signalling and activations	**$33,000.00**
Trougakos, John Peter	Department of Management	SSHRC	Insight Grant	Why are we not taking our breaks? Examining predictors of employee work break choices	**$37,245.00**
Tsuji, Leonard	Department of Anthropology	CIHR	Doctoral Research Awards	Nicole Frances Spiegelaar – Doctoral Banting and Best CGS – Integrating traditional ecological knowledge and local resources with agroforestry stewardship practices to enhance food security in sub-arctic First Nations	**$36,000.00**
Tsuji, Leonard	Department of Anthropology	CIHR	Open Operating	Utilizing indigenous knowledge and western science as complementary constructs: The synchronization of traditional harvesting activities and agroforestry community gardens to form a sustainable import-substitution	**$146,207.00**
Tsuji, Leonard	Department of Anthropology	CIHR	Open Operating	Increasing the adaptive capacity of subarctic and Arctic Aboriginal people to environmental change through environmental monitoring, modelling, and health planning: the use of innovative, web-based, informatics tools	**$100,000.00**
Tsuji, Leonard	Department of Anthropology	CIHR	Open Operating	From the northern edge of subarctic Canada to the subtropics of Australia: Improving food security and wellbeing in Indigenous communities through agroforestry stewardship practices using Indigenous knowledge and western science as complementary constructs	**$100,000.00**
Tsuji, Leonard	Department of Anthropology	CIHR	Request for Applications (RFA) Team Grant	Resource Development in Subarctic Canada and the Subtropics of Australia: An evaluation of existing environment-and-health mitigation strategies using two-eyed seeing	**$49,860.00**
Tsuji, Leonard	Department of Anthropology	SSHRC	Insight Grant	From subarctic Ontario, Canada, to the subtropics of New South Wales, Australia: the potential use of strategic environmental assessment to protect the core elements of Indigenous culture	**$39,704.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	TITLE OF RESEARCH PROJECT	AWARDED
Tsuji, Leonard	Department of Anthropology	EPA/University of Massachusetts	Environmental Protection Agency (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	**$16,774.78**
Valencia, Diana	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Formation and evolution of super-earths and sub-Neptune planets	**$19,000.00**
Vanlerberghe, Greg	Department of Biological Sciences	NSERC	Discovery Grants	Alternative oxidase of plant mitochondria	**$40,000.00**
Vanlerberghe, Greg	Department of Biological Sciences	Ontario Ministry of Natural Resources and Forestry	Operating Grant	Conservation genetics of the endangered Queensnake (Regina septemvittata) in Ontario	**$29,000.00**
Vernon, Karina Joan	Department of English	SSHRC	Insight Grant	Black Canadian art and the aesthetics of spatial justice	**$14,736.00**
Virag, Balint	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Random eigenvalues	**$38,000.00**
Wania, Frank	Department of Physical & Environmental Sciences	Aboriginal Affairs and 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	**$39,100.00**
Wania, Frank	Department of Physical & Environmental Sciences	Environment Canada	Research	Method Development to Provide Spatially-resolved Atmospheric Mercury Concentration Data in the Arctic	**$72,000.00**
Wania, Frank	Department of Physical & Environmental Sciences	Environment Canada	Operating Contract	Multimedia mass balance modelling studies of semivolatile organic contaminants (SVOCs) emitted by oilsands operations within the Athabasca Oilsands region (AOSR)	**$30,000.00**
Wania, Frank	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Theoretical and experimental approaches to describe the chemodynamics of hydrophobic organics, ionogenic organics and methyl mercury in the food chain	**$89,000.00**
Wania, Frank	Department of Physical & Environmental Sciences	NSERC	Strategic Grants	A passive air sampler for precise, spatially distributed atmospheric mercury monitoring and source characterization	**$57,000.00**
Wania, Frank	Department of Physical & Environmental Sciences	NSERC	University of Toronto Excellence Award – NSE	Predicting phase partitioning equilibria of the oxidation products of VOCs involved in SOA formation	**$4,875.00**
Way, Lucan Alan	Department of Political Science	SSHRC	Insight Grant	Revolutionary struggle and authoritarian durability after the Cold War	**$7,250.00**
Wei, Jason	Department of Management	SSHRC	Insight Grant	Does active trading enhance or destroy firm value?	**$21,450.00**
Weir, Jason Tyler	Department of Biological Sciences	NSERC	Discovery Accelerator Supplements	The biogeographic drivers and genomic architecture of speciation in Amazonian birds	**$31,000.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	TITLE OF RESEARCH PROJECT	AWARDED
Welch Jr., Kenneth Collins	Department of Biological Sciences	NSERC	Discovery Grants	Divergent mechanisms, convergent phenotype: the comparative physiology of glucose and fructose oxidation in vertebrate nectarivores	**$28,000.00**
Wells, Mathew	Department of Physical & Environmental Sciences	MITACS	MITACS-Elevate (PDF)	Integrated hydrodynamic and ecological modelling framework for the Toronto Waterfront	**$57,500.00**
Wells, Mathew	Department of Physical & Environmental Sciences	NSERC	Discovery Accelerator Supplements	Transport and mixing of particles in stratified environmental flows	**$41,000.00**
Young, Robert Ji Wai	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Asymptolic geometry, filling functions and non-positive curvature	**$16,000.00**
Zakzanis, Konstantine	Department of Psychology	MITACS	Accelerate Ontario	UTSC/MHS/RREES inter-disciplinary assessment and Rehabilitation Centre for Excellence	**$30,000.00**
Zhao, Rongmin	Department of Biological Sciences	NSERC	Discovery Grants	UTSC/MHS/RREES inter-disciplinary assessment and Rehabilitation Centre for Excellence	**$26,000.00**

SELECT PUBLISHED WORKS, 2015–2016

(This is a non-comprehensive list.)

KEY
Boldface: U of T Scarborough contributor

Articles (619)

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5. Afrasiabi, R., & **Kraatz, H.-B.** (2015). Rational design and application of a redox-active, photoresponsive, discrete metallogelator. *Chemistry, 21*(21), 7695–7700.
6. Agarwal, R., Campbell, B.A., **Franco, A.M.**, & Ganco, M. (2016). What do I take with me? The mediating effect of spin-out team size and tenure on the founder-firm performance relationship. *Academy of Management Journal, 59*(3), 1060–1087.
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12. Akhter, M., Dutta Majumdar, R., Fortier-McGill, B., Soong, R., Liaghati-Mobarhan, Y., **Simpson, M., Simpson, A.J.** (2016). Identification of aquatically available carbon from algae through solution-state NMR of whole ^{13}C-labelled cells. *Analytical and Bioanalytical Chemistry, 408*(16), 4357–4370.
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15. Amini, K., Ebralidze, I.I., Chan, N.W.C., & **Kraatz, H.-B.** (2016). Characterization of TLR4/MD-2–modified Au sensor surfaces towards the detection of molecular signatures of bacteria. *Analytical Methods, 8*(42), 7623–7631.
16. Amir, G., Angel, O., Bon, N.M., & **Virág, B.** (2016). The Liouville property for groups acting on rooted trees. *Annales de l'Institut Henri Poincaré Probability and Statistics, 52*(4), 1763–1783.
17. Anderson, J.L., Sellbom, M., Ayearst, L., Quilty, L.C., Chmielewski, M., & **Bagby, R.M.** (2015). Associations between DSM-5 section III personality traits and the Minnesota Multiphasic Personality Inventory 2-restructured form (MMPI-2-RF) scales in a psychiatric patient sample. *Psychological Assessment, 27*(3), 801–815.
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22. Armstrong, C., & **Rein, H.** (2015). High-order harmonics in light curves of Kepler planets. *Monthly Notices of the Royal Astronomical Society: Letters, 453*(1), L98–L102.
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28. **Averbakh, I.**, Berman, O., Kalcsics, J., & Krass, D. (2015). Structural properties of Voronoi diagrams in facility location problems with continuous demand. *Operations Research, 63*(2), 394–411.

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31. Baergen, A.M., & **Donaldson, D.J.** (2016). Formation of reactive nitrogen oxides from urban grime photochemistry. *Atmospheric Chemistry and Physics, 16*(10), 6355–6363.
32. Baergen, A.M., Styler, S.A., van Pinxteren, D., Müller, K., Herrmann, H., & **Donaldson, D.J.** (2015). Chemistry of urban grime: Inorganic ion composition of grime vs particles in Leipzig, Germany. *Environmental Science and Technology, 49*(21), 12688–12696.
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37. Bässler, C., Müller, J., **Cadotte, M.W.**, Heibl, C., Bradtka, J.H., Thorn, S., & Halbwachs, H. (2016). Functional response of lignicolous fungal guilds to bark beetle deforestation. *Ecological Indicators, 65*, 149–160.
38. Bastos, R., Pinhanços, A., Santos, M., Fernandes, R.F., Vicente, J.R., Morinha, F., … **Cadotte, M.W.** (2016). Evaluating the regional cumulative impact of wind farms on birds: How can spatially explicit dynamic modelling improve impact assessments and monitoring? *Journal of Applied Ecology, 53*(5), 1330–1340.
39. Battram, N.M., **Eyles, N.**, Lau, P.S., & **Simpson, M.J.** (2015). Organic matter biomarker analysis as a potential chemostratigraphic tool for late Pleistocene tills from the Hudson Bay lowlands, Canada. *Palaeogeography, Palaeoclimatology, Palaeoecology, 418*, 377–385.
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