FOR INFORMATION **PUBLIC** **OPEN SESSION**

TO: UTSC Academic Affairs Committee

SPONSOR: Marc Cadotte, Acting Vice-Principal, Research
CONTACT INFO: 416-208-4835; vpresearch@utsc.utoronto.ca

PRESENTER: See Sponsor.
CONTACT INFO:

DATE: March 22, 2018 for March 29, 2018

AGENDA ITEM: 12

ITEM IDENTIFICATION:

Annual Report: Office of the Vice-Principal, Research

JURISDICTIONAL INFORMATION:

Under section 5.7 of its Terms of Reference, the *"Committee receives annually, from the appropriate administrators, reports on services within its areas of responsibility, including research"*

GOVERNANCE PATH:

1. **UTSC Academic Affairs Committee [For information] (March 29, 2018)**
2. UTSC Campus Council [For information] (April 17, 2018)

PREVIOUS ACTION TAKEN:

No previous action has been taken on this item.

HIGHLIGHTS:

The annual report presentation for the Office of the Vice-Principal, Research, provides an overview of UTSC faculty research outputs and funding for 2017-2018. In addition, the presentation highlights the Office's supports, services, and other initiatives for the UTSC community.

FINANCIAL IMPLICATIONS:

N/A

RECOMMENDATION:

Presented for information.

DOCUMENTATION PROVIDED:

PowerPoint presentation.

Document- Research and Innovation at UofT Scarborough

UNIVERSITY OF TORONTO SCARBOROUGH

Office of the Vice-Principal Research Annual Report Presentation

2017-2018

UTSC Academic Affairs

March 29, 2018

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

Prestigious Awards and Honours

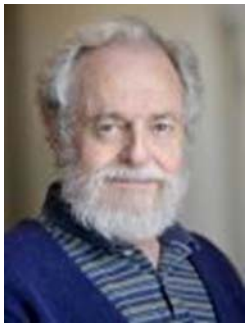
Sandro Ambuehl (2017)
Sloan Foundation Grant
Management

Stefanos Aretakis (2017)
MRIS Early Researcher Award;
Sloan Research Fellowship (2016)
Computer & Mathematical Sciences

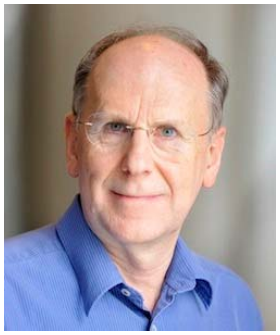
Brian Connelly (2016)
MRIS Early Researcher Award
Management

Nicholas Eyles (2016)
Association of Professional Geoscientists o
Ontario Lifetime Career Award of Merit
Physical & Environmental Sciences

Steven Farber (2016)
MRIS Early Researcher Award
Human Geography



John Friedlander (2017)
AMS Joseph L. Doob Prize
Computer & Mathematical Sciences



Graeme Hirst (2017)
Canadian Artificial Intelligence
Association Lifetime Achievement Award
Computer & Mathematical Sciences

Artur Izmaylov (2016)
MRIS Early Researcher Award
Physical & Environmental Sciences

Prestigious Awards and Honours

Heinz-Bernhard Kraatz (2017)
Canadian Society for Chemistry Rio Tinto Alcan Award
Physical & Environmental Sciences

Patrick McGowan (2016)
MRIS Early Researcher Award
Biological Sciences

Carl Mitchell (2017)
Canadian Geophysical Union Young Scientist Award
Physical & Environmental Sciences

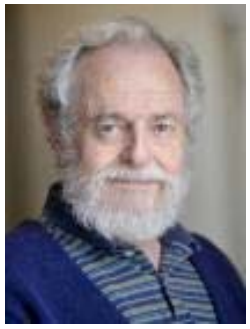
Blake Richards (2017)
MRIS Early Researcher Award
Biological Sciences

Daniel Roy (2016)
MRIS Early Researcher Award
Computer & Mathematical Sciences

Anthony Ruocco (2016)
MRIS Early Researcher Award
Psychology

Zindel Segal (2017)
U of T President's Impact Award
Psychology

Royal Society of Canada Fellows, Members and Award Recipients



John Friedlander (1988)
Computer & Mathematical Sciences

Michael Lambek (2000)
Anthropology

John Kennedy (2005)
Psychology

Lisa Jeffrey (2007)
Computer &
Mathematical Sciences

Judith Teichman (2014)
Political Science

Balint Virag (2014)
Computer &
Mathematical Sciences

Nathalie Rothman (2014)
Historical and Cultural Studies

Frank Wania (2017)
Physical & Environmental
Sciences

2017 UTSC Awards

UTSC Research Excellence Faculty Scholars

Jennifer Chun (2017-2020)
Sociology

Jeffrey Pilcher (2017-2020)
Historical and Cultural Studies

Myrna Simpson (2017-2020)
Physical & Environmental Sciences

UTSC Research Recognition Award

Li Chen (2017)
Historical and Cultural Studies

UTSC Principal's Research Award

James Donaldson (2017)
Physical & Environmental Sciences

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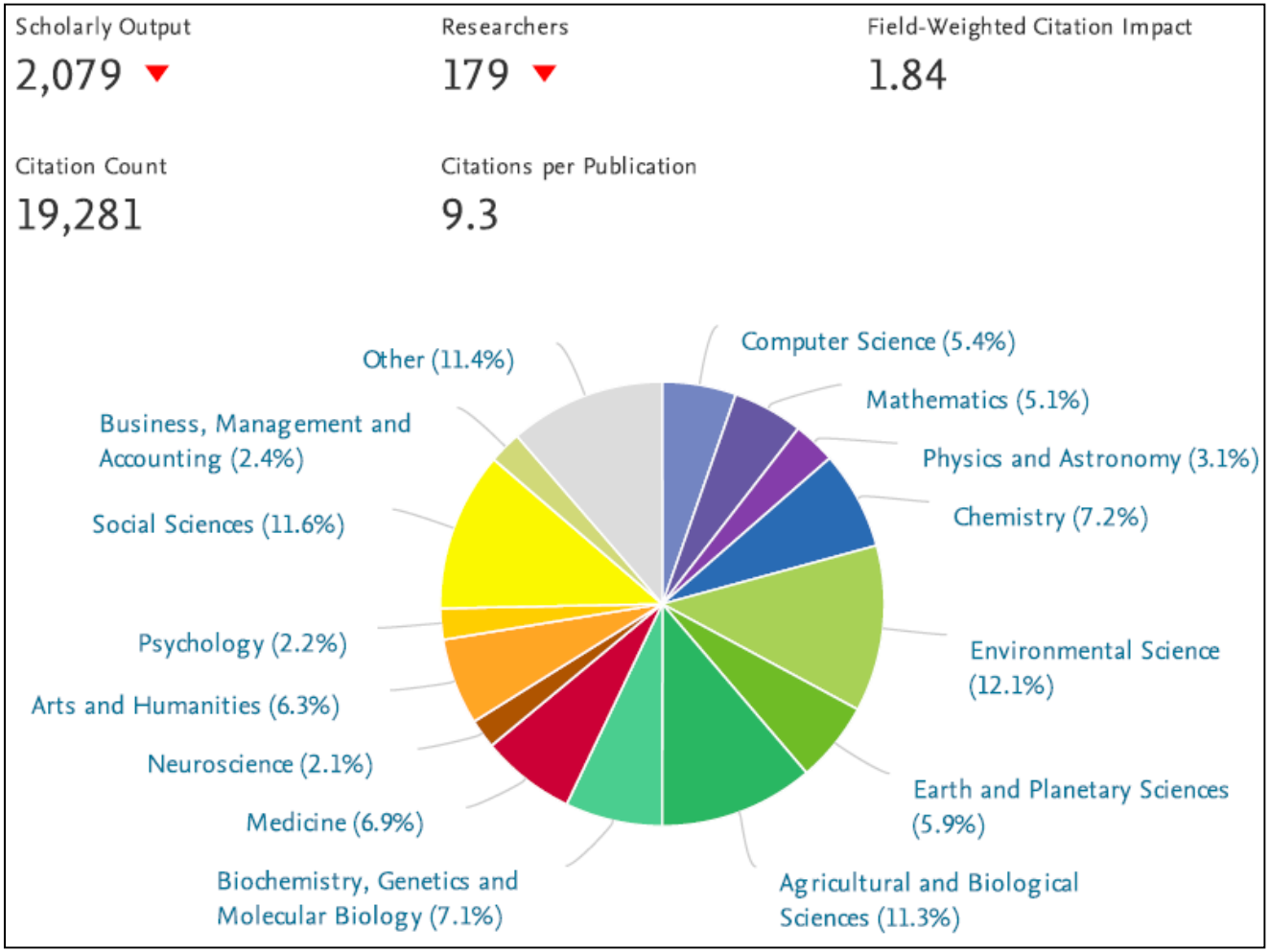
2012-2017 Publishing Activity

Scholarly Output	Researchers	Field-Weighted Citation Impact
2,079 ▼	179 ▼	1.84

Citation Count	Citations per Publication
19,281	9.3



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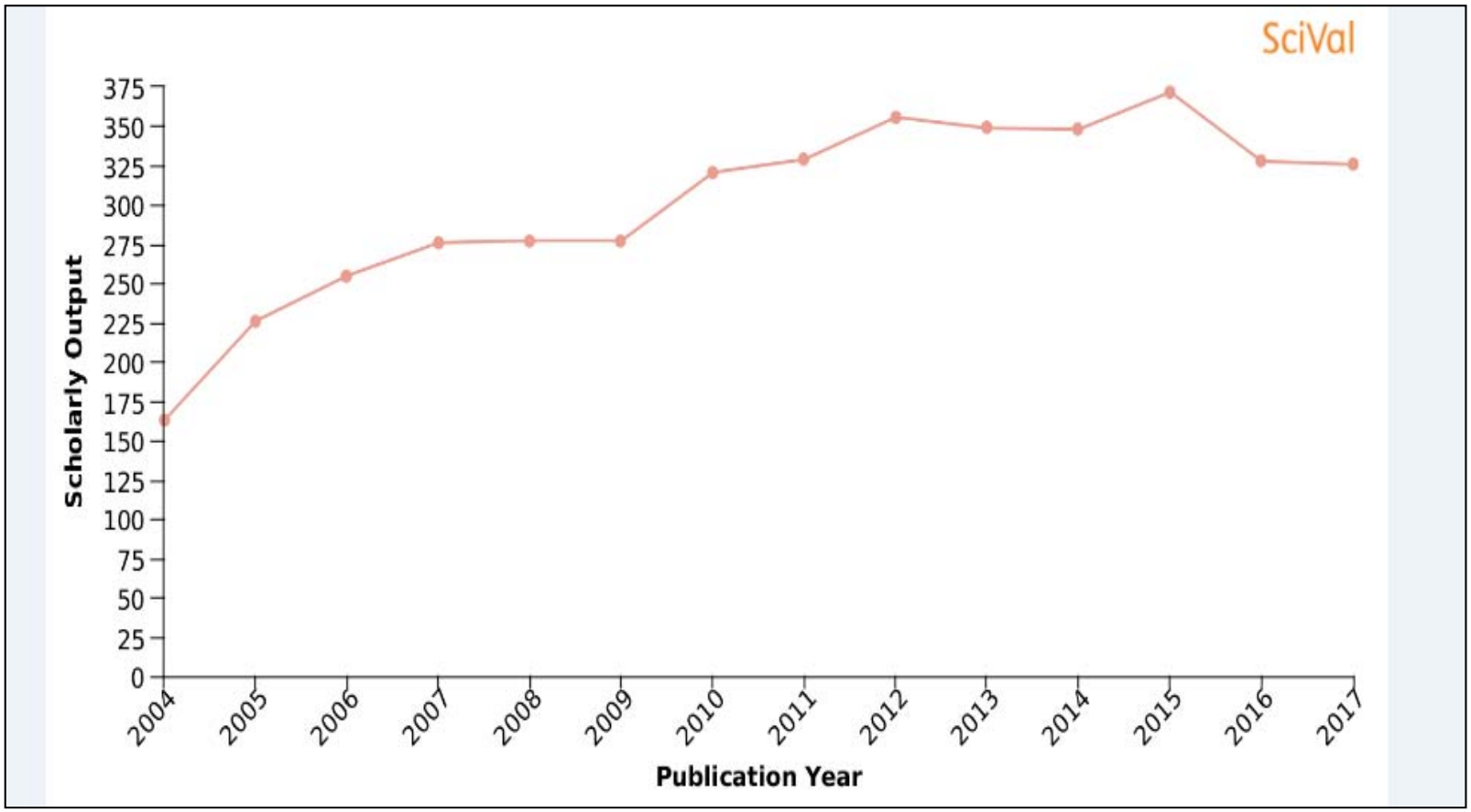
Overall Research Performance

UTSC – All Researchers: Annual Scholarly Output 2004-2017



Scholarly Collaboration

UTSC – All Researchers: 2012-2017

Collaboration

Publications of UTSC, by amount of international, national and institutional collaboration

Metric		Publications	Citations
International collaboration	43.2%	1,180	14,053
Only national collaboration	15.1%	411	4,174
Only institutional collaboration	27.7%	756	6,805
Single authorship (no collaboration)	14.0%	383	2,018

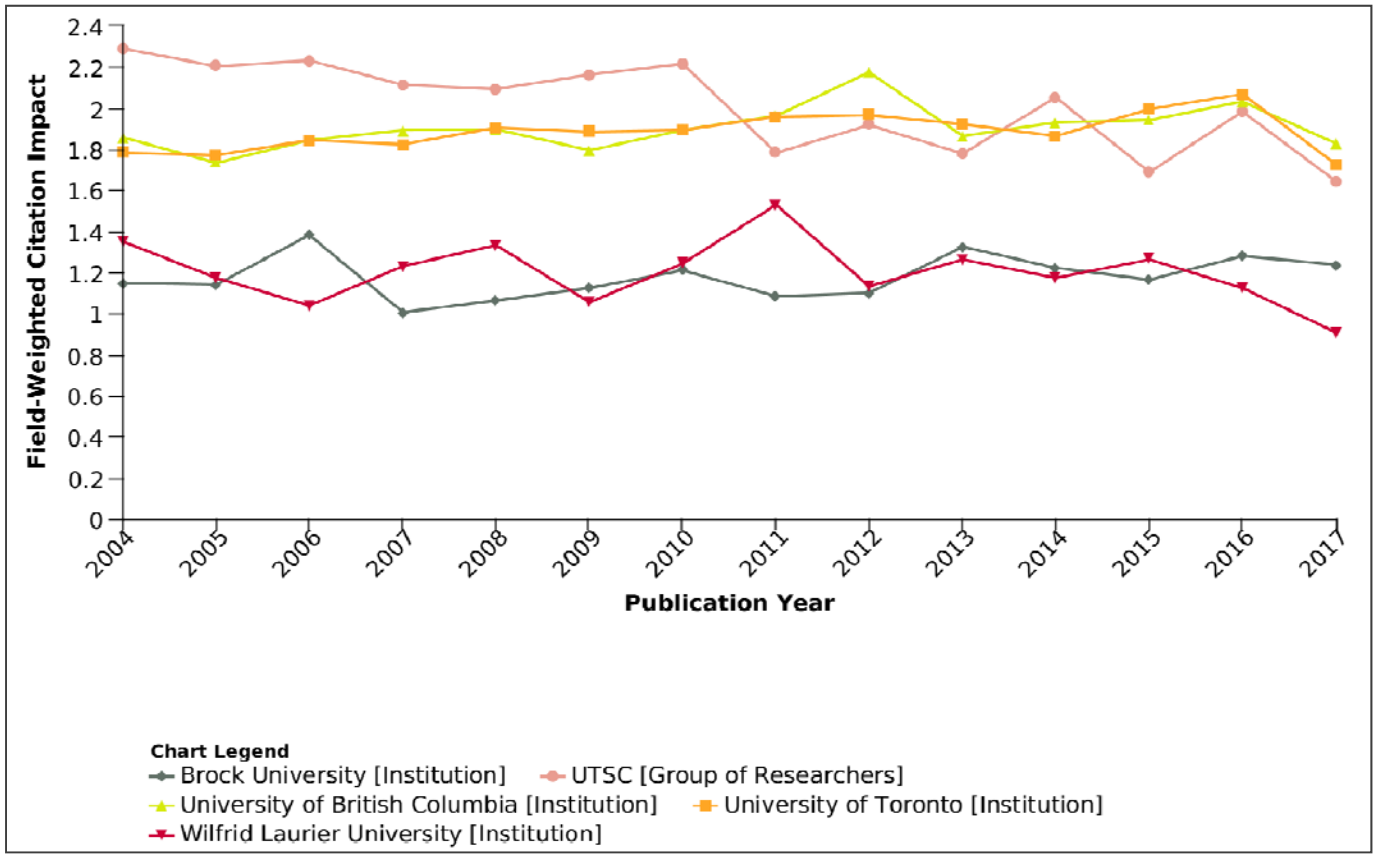
Scholarly Collaboration

UTSC Research Collaboration – Top 10 Institutions (2012-2017)

	Institution	Co-authored publications	Citations received for co-authored publications	Co-authors	Field-Weighted Citat...
1.	University of Toronto	2,257 ▲	21,279	1,395 ▲	1.79
2.	University of Waterloo	69 ▼	339	44 ▼	1.17
3.	Carnegie Mellon University	57 ▲	543	46 ▲	3.31
4.	Harvard University	54 ▲	675	48 ▲	2.51
5.	McGill University	53 ▼	865	66 ▼	2.16
6.	University of Calgary	52 ▲	515	59 ▲	1.47
7.	York University Toronto	49 ▼	368	43 ▼	2.68
8.	Fisheries and Oceans Canada	47 ▼	253	27	0.97
9.	University of British Columbia	45 ▲	748	51 ▲	2.30
10.	University of Minnesota	44 ▼	890	36 ▲	2.46

Comparative* Research Performance

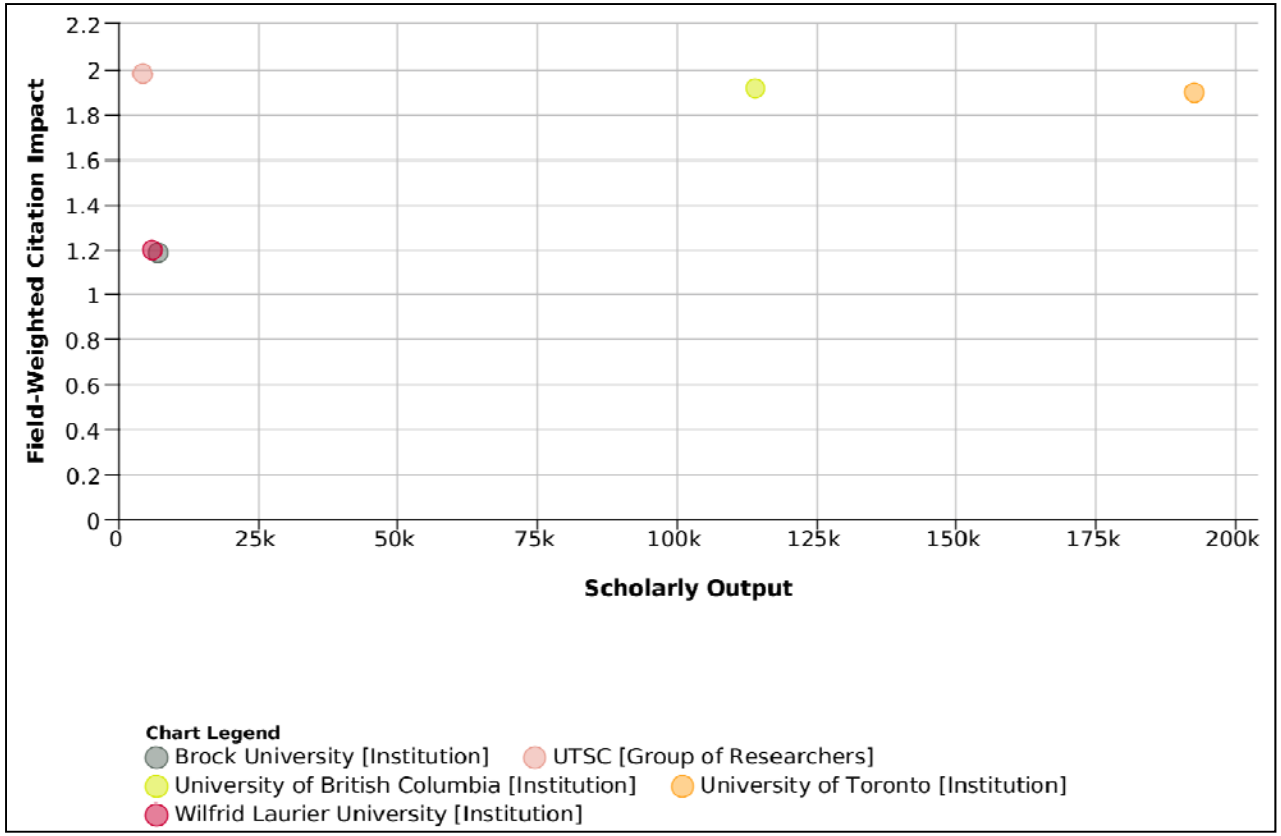
UTSC – All Researchers: 2004-2017



*Brock University and Wilfrid Laurier University were chosen because, according to an online report (Resource Infosource Inc. *Canada's Top 50 Research Universities 2017*), their sponsored research incomes in 2016 (BU: $13.5M; WLU: $14.2M) were similar to UTSC's 2015-16 revenues ($12.8M).

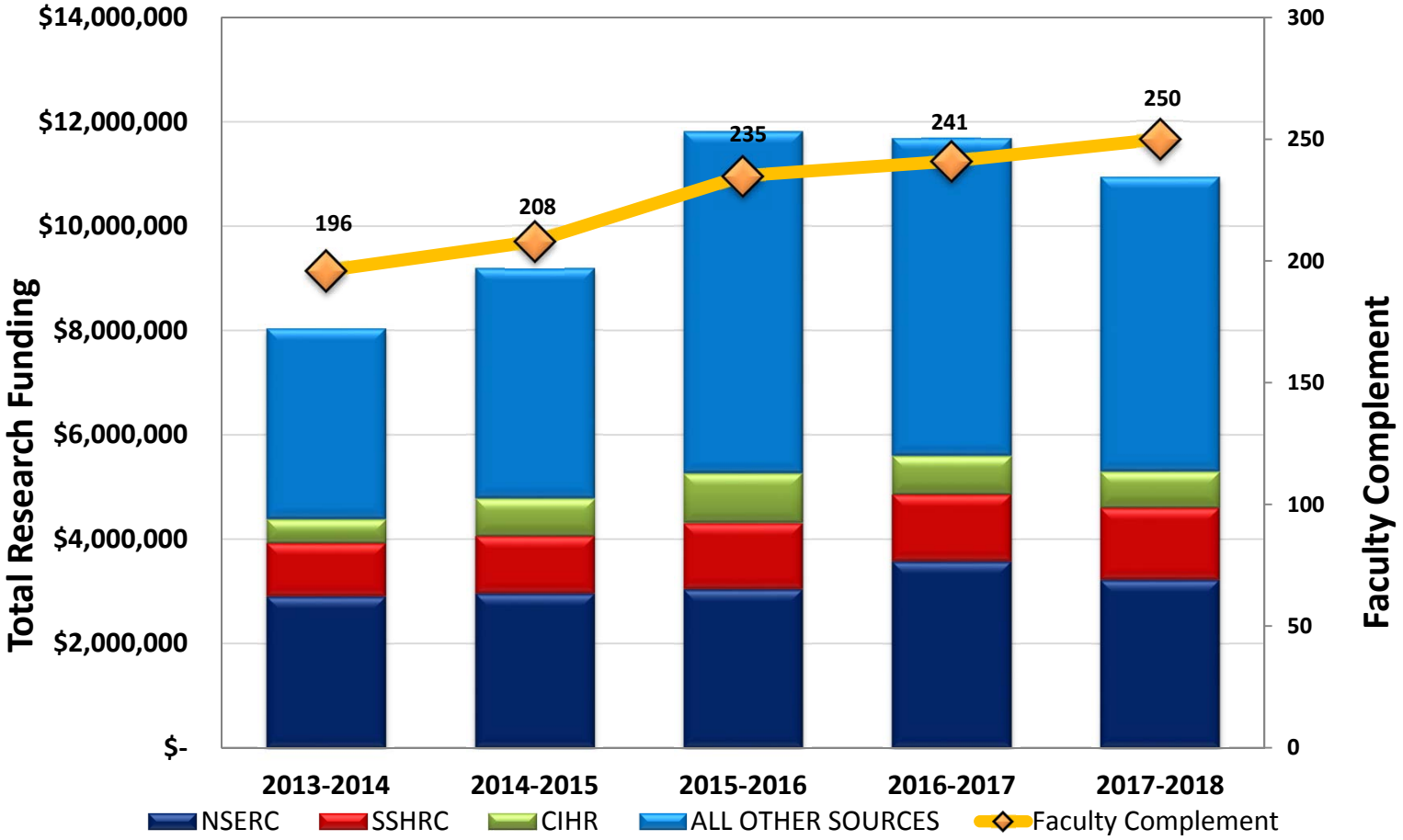
Comparative Research Performance

UTSC – All Researchers: 2004-2017



The graph shows the cumulative field-weighted citation impact (CFCI) relative to the total number of publications (2004-17) for each of the identified institutions. For example, the CFCI for all publications (i.e., approximately 5,000) by UTSC researchers during the 2004-2017 period is approximately "2". Alternatively, the CFCI for all publications (i.e., approximately 190,000) by U of T researchers is approximately "1.9" for the period in question.

Research Funding



- Data Source: UTBI Research Datacube (last updated March 5, 2018), pro-rated, Grant Year April 1, 2017 – March 31, 2018
- Research data is dynamic and changes with each refresh

Research Funding

	2013-14	2014-15	2015-16	2016-17	2017-18
NSERC	$2,905,681	$2,957,847	$3,044,112	$3,576,285	$3,224,106
SSHRC	$1,022,911	$1,104,092	$1,266,343	$1,284,347	$1,381,951
CIHR	$456,304	$718,203	$954,376	$739,978	$691,202
Other	$3,657,866	$4,411,961	$6,551,505	$6,089,587	$5,653,234
Faculty	196	208	235	241	250
TOTAL:	**$8,042,762**	**$9,192,103**	**$11,816,336**	**$11,690,197**	**$10,950,493**

- Data Source: UTBI Research Datacube (last updated March 5, 2018), pro-rated, Grant Year April 1, 2017 – March 31, 2018
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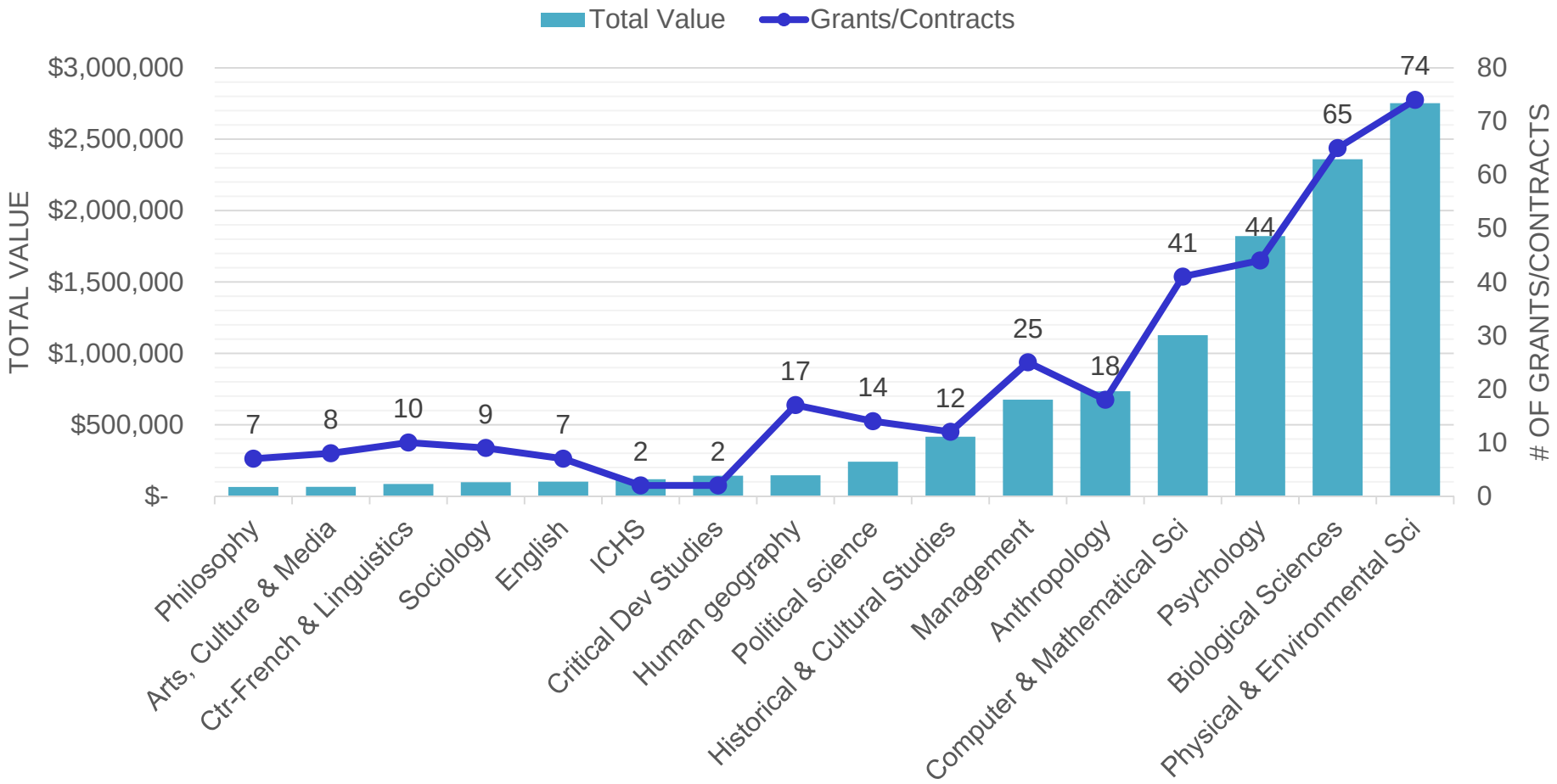
Research Funding by Department 2017-2018



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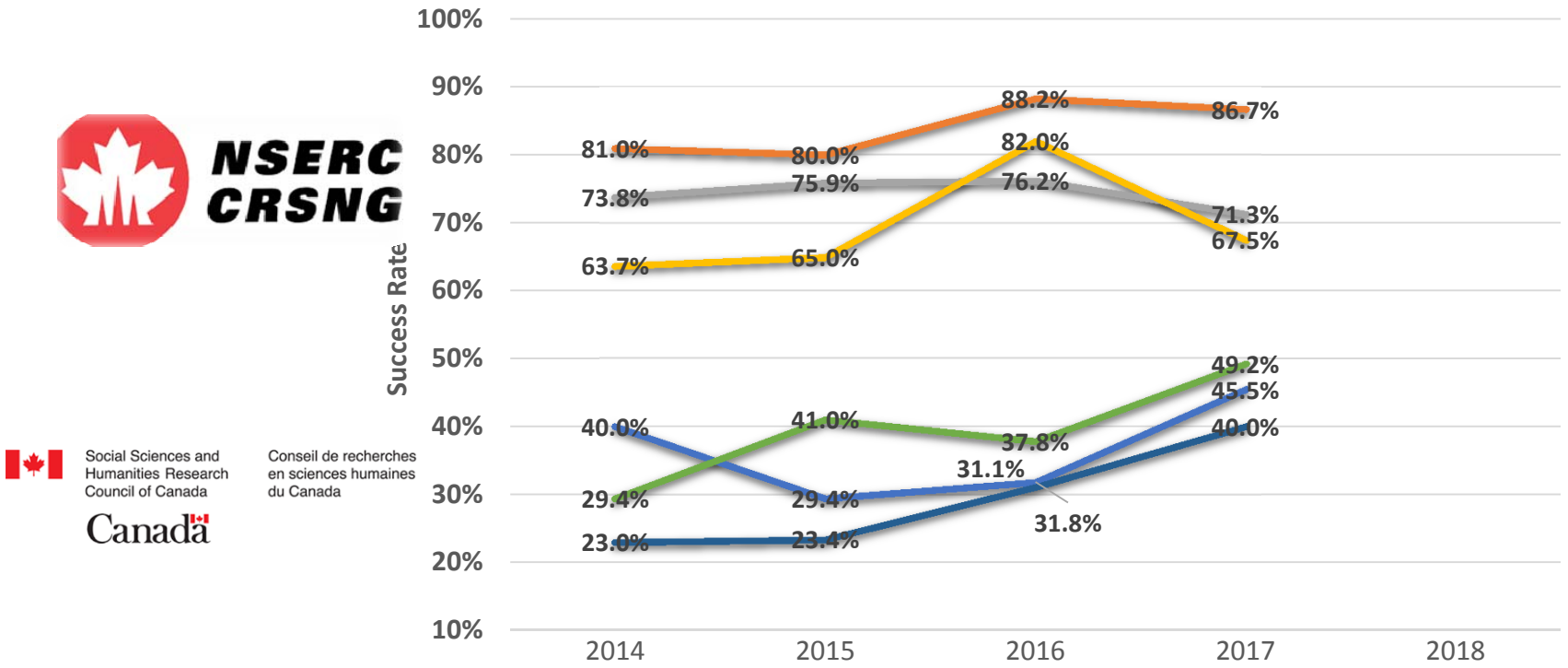
NSERC Discovery and SSHRC Insight Grant Success Rates



	2014	2015	2016	2017
NSERC UTSC Disccovery Success Rate	81.0%	80.0%	88.2%	86.7%
NSERC U of T Success Rate	73.8%	75.9%	76.2%	71.3%
NSERC National Success Rate	63.7%	65.0%	82.0%	67.5%
SSHRC Insight UTSC Success Rate	40.0%	29.4%	31.8%	45.5%
SSHRC Insight U of T Success Rate	29.4%	41.0%	37.8%	49.2%
SSHRC Insight National Success Rate	23.0%	23.4%	31.1%	40.0%

Source: Data from NSERC Facts & Figures and Research Information System, Research Data

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Our Role

The Vice-Principal Research is responsible for enhancing the overall research stature of UTSC locally, nationally and internationally.

The Office of the Vice-Principal Research aims to serve in a facilitation role to assist UTSC faculty and students in achieving their research aspirations, and to help faculty develop and implement broad strategic research visions at UTSC.

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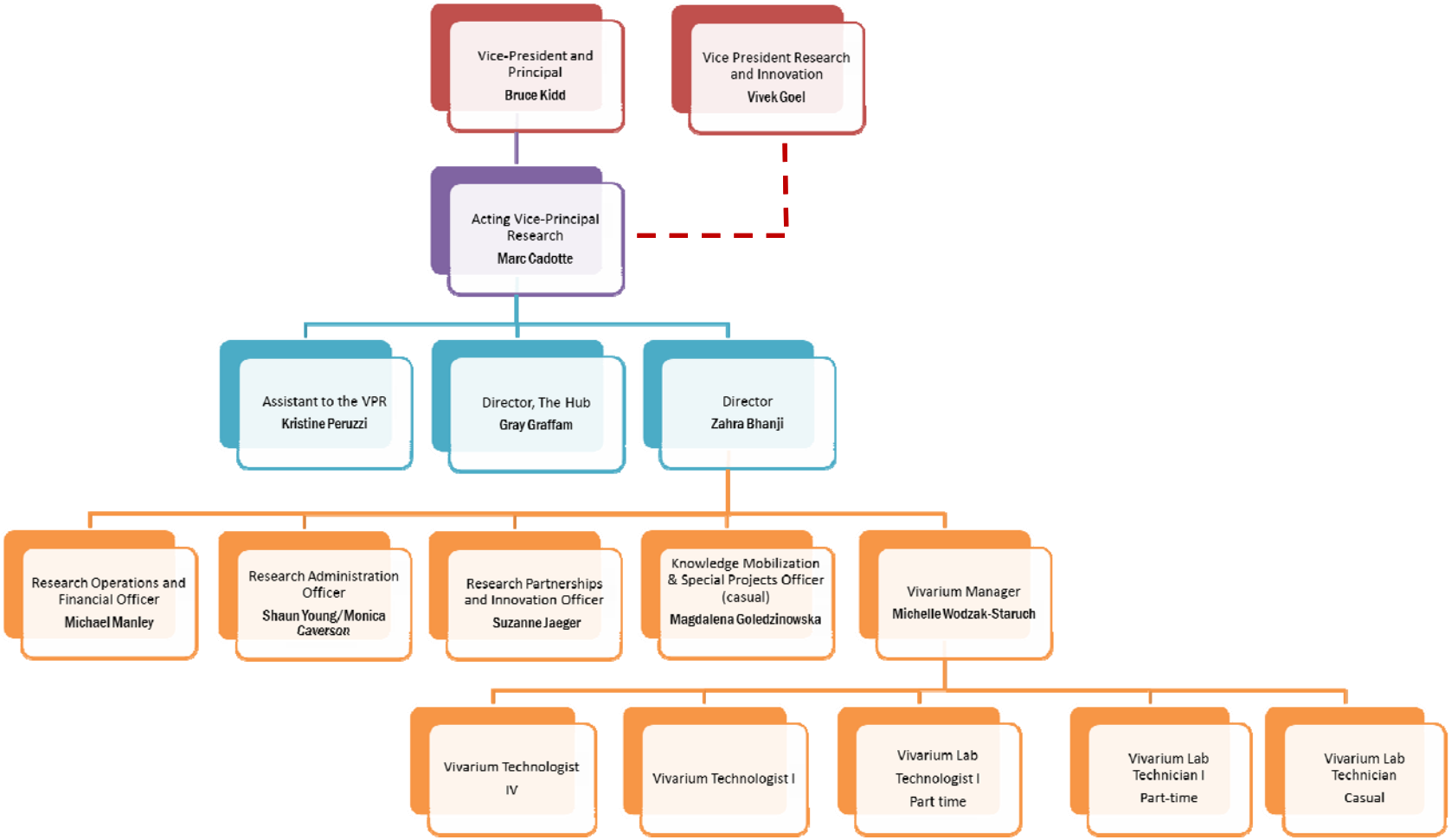
OVPR Organizational Chart



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Research Advisory Board 2017-2018

Sandra Bamford
Department of Anthropology

Rene Harrison/Ken Welch
Department of Biological Sciences

Elizabeth Harney
Ken McCleod
Department of Arts, Culture and Media

Graeme Hirst
Department of Computer and Mathematical Science

Karina Vernon
Department of English

Juvénal Ndayiragije
Department of French and Linguistics

Leonard Tsuji
Interdisciplinary Centre for Health Studies

Danie Bender
Department of Historical and Cultural Studies

John Miron
Department of Human Geography

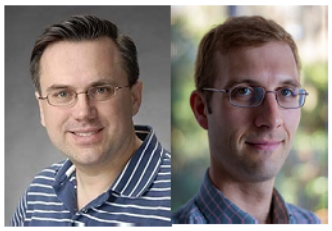
John Trougakos
Department of Management

Philip Kremer/Benj Hellie
Department of Philosophy

Jamie Donaldson
Department Physical and Environmental Sciences

Lucan Way
Department of Political Sciences

Angela Hamilton
Library Representative



Matthias Niemeier
Blair Armstrong
Department of Psychology

Jane Hamer
Department of Sociology

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OVPR Strategy

- Faculty training and research proposal development services and support
- Seed funding to enhance, stimulate and promote faculty research
- Recognition and promotion of faculty research excellence
- Support student research and innovation activities (The Hub)

OVPR Information Sessions and Workshops for faculty in 2017-18

Topic	Date
NSERC Discovery Grant (DG) NOI Information Session	July 20, 2017
SSHRC Insight Grant Information Session	July 27, 2017
New Faculty Orientation • Kick Starting your Research Program • Building Research Excellence • Research Awards & Honours • MRA Overview	August 1-3, 2017
NSERC Research Tools & Instruments Information Session	September 13, 2017
NSERC Discovery Grant Information Session	September 13, 2017
SSHRC Partnership Grants Information Session	September 13, 2017

OVPR Information Sessions and Workshops 2017-18

Topic	Date
Chairs and Directors Retreat Faculty Recognition: Internal & External Awards	September 19, 2017
Graduate Student Grant Writing Workshop	September 20, 2017
SSHRC Insight Development Grant Information Session	November 21, 2017
Innovations and Partnerships Office (IPO) Information Session	November 22, 2017
Predatory Journals Information Session	December 6, 2017
Awards & Honours Information Session	February 21, 2018

OVPR Grant Support

- In the past year
  - Administrative oversight of **220** external grant applications (May 1, 2017 to February 21, 2018)
  - Review for compliance with UT protocols for indirect costs if applicable
  - MRA approval process support
- Enhanced processing of ~**43** applications
  - Proposal development and editing support
  - Review and feedback on narrative sections of proposal and/or budget review and feedback

Faculty Recognition Event

- *UTSC Applauds* event held on campus on September 26, 2017
- Honoured 65 UTSC research faculty recipients of 120+ prestigious awards and honours

Research Excellence Lecture Series

- Marc Cadotte, Biological Sciences, Research Recognition Award 2015
- Li Chen, HCS, Research Recognition Award 2017
- James Donaldson, DPES, Principal's Research Award 2017
- Michael Inzlicht, Psychology, Research Excellence Faculty Scholar 2016
- Marney Isaac, DPES, Canada Research Chair 2013-2018
- Lisa Jeffrey, CMS, Research Excellence Faculty Scholar 2016
- Anthony Ruocco, Psychology, Young Investigator Research Award 2017
- Frank Wania, DPES, Royal Society of Canada Fellow 2017

Celebration of RESEARCH EXCELLENCE Lecture Series

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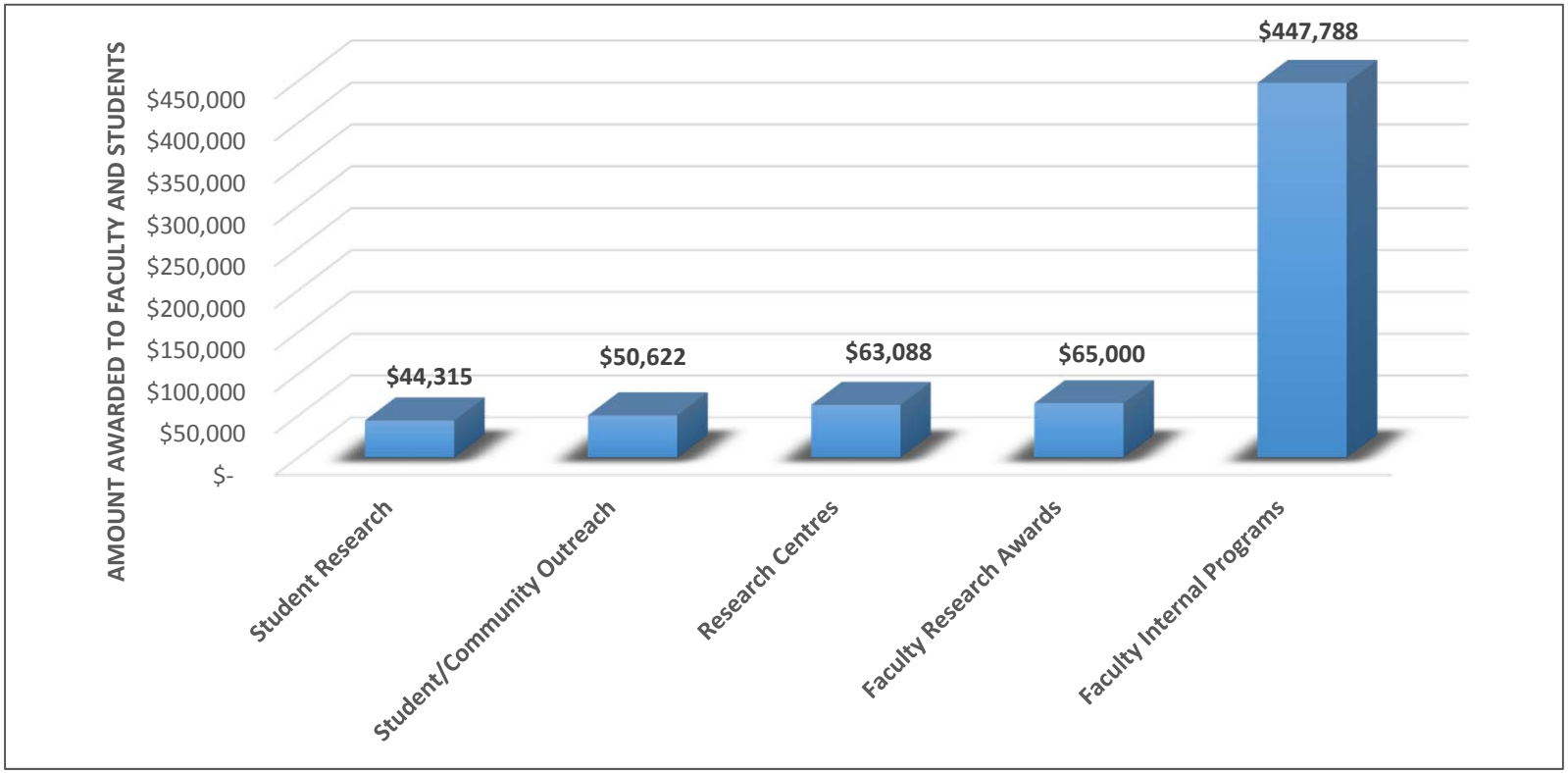
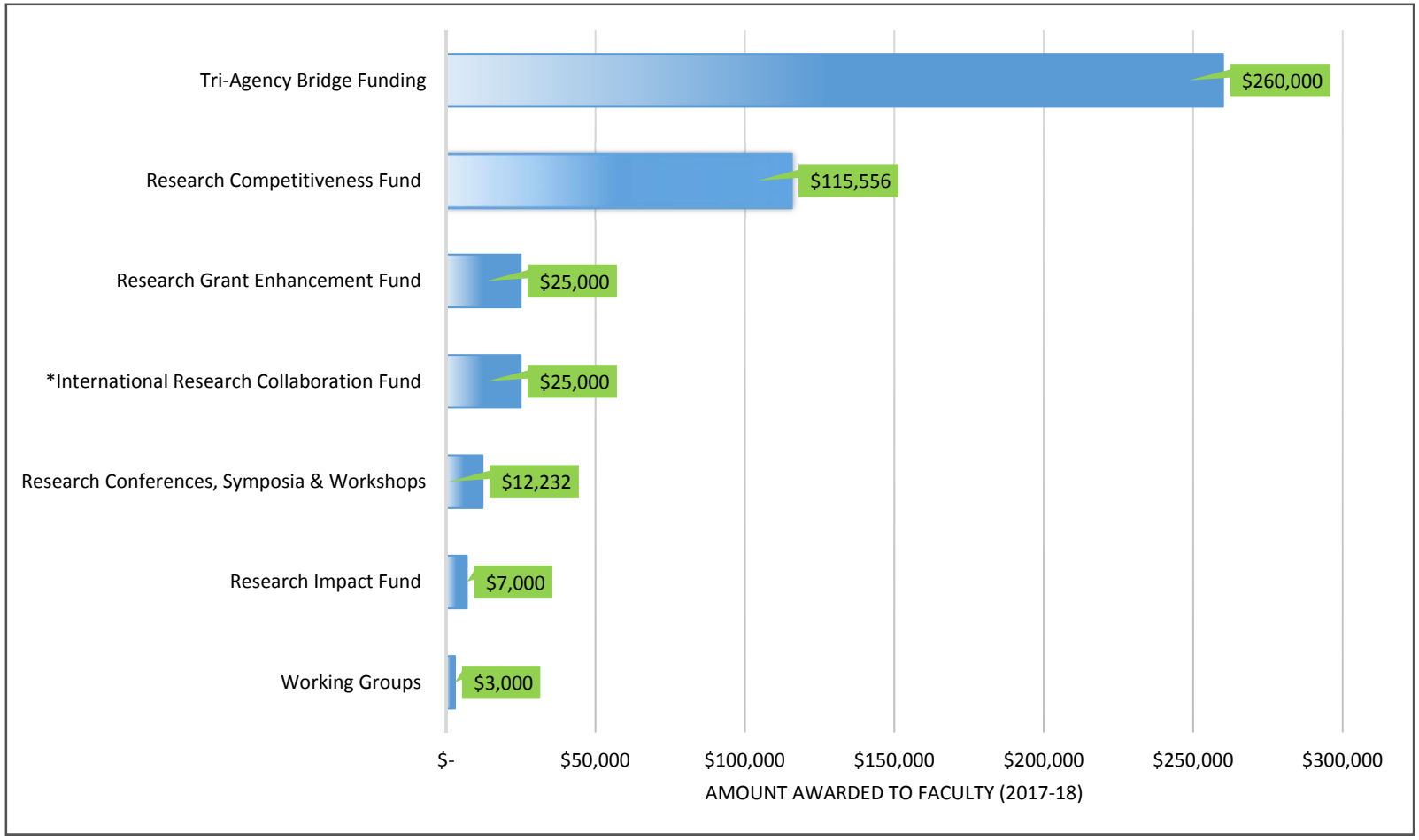
Internal Funding Programs

In 2017-18 more than $670K was provided to faculty and students through our internal programs, awards, and sponsorships.



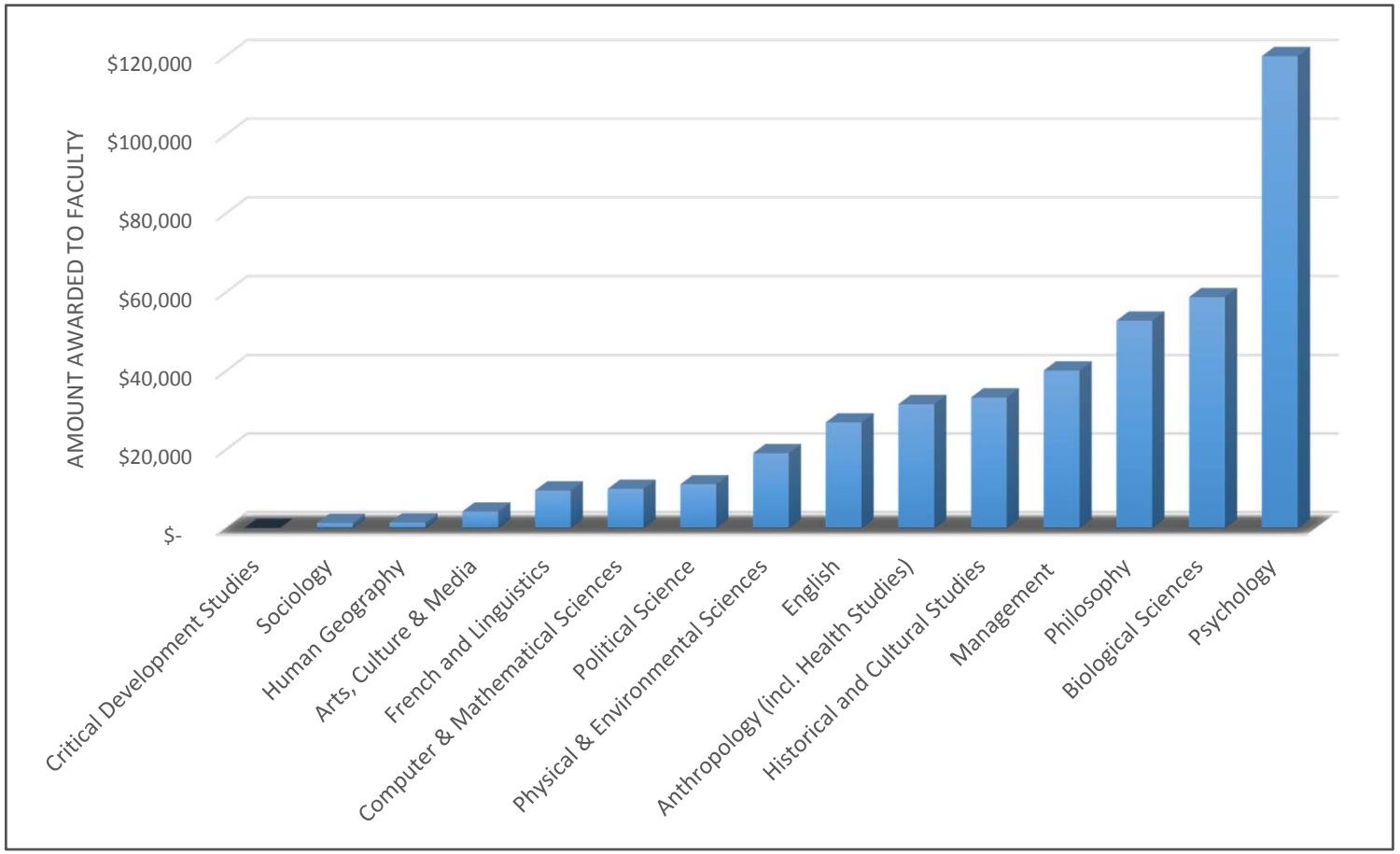
Faculty Internal Funding Programs



*Estimated funding for International Research Collaboration Fund. Application submission deadline is April 1, 2018.

Funding Across All Disciplines 2017-18

The internal funding programs supported UTSC faculty across all disciplines



Infrastructure Updates

Strategic Innovation Fund (SIF)

Major updates to UTSC's existing research space

State-of-the-Art Facility For Research Excellence

Enhance UTSC's unique "competitive" advantage – engagement in both controlled and field-based research initiatives

2018 OVPR Survey on Faculty Services and Supports

This evaluation aimed to obtain feedback from UTSC faculty on the OVPR support and services as well as on how the services and initiatives of the Office can be enhanced to better support faculty research.

OVPR Supports Faculty Survey

- Survey link sent to 150 research faculty that have used OVPR services or funding initiatives over the last two years (2016 and 2017)
- 79 faculty completed the survey (52.6% response rate) between January 10-29, 2018
- Almost all of the departments were represented

Securing Information

- 97.4% of the respondents (74 people) have been able to secure the information they need from the OVPR
- Of those who have used the VPRO internal programs, most were very satisfied

Feedback on Communication Tools

- Research Updates
  - 94% receive it; 6% are not sure
  - Reading habits: Rarely 32%; Regularly 53%; Always 15%
  - Information useful or very useful: 64%
- Website
  - 36% have not visited in the last 6 months
  - 54% find it user-friendly or very user-friendly
- Wiki/library of successful grant proposals
  - 77% have not used it yet
  - Those who used it were highly or very highly satisfied

Recommendations from Survey Respondents

- Greater discipline-specific support such as departmental level workshops
- More CIHR grants expertise at OVPR
- Greater clarity on function of and differences between VPRO Internal Programs

General Comments

"(…) I believe that UTSC has improved dramatically over the years with regard to assisting faculty with finding appropriate funding for their research."

"You guys rock! You are great communicators, both with the users (me) and amongst yourselves, and the chain-of-command seems to be well-greased machine. The services provided from the various departments (budgeting, writing, editing, etc) of the OVPR was very well integrated and supportive, and I think this is a real strength of your group."

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The Hub

Ontario Network of Entrepreneurs

Ontario Centres of Excellence

MaRS

UNIVERSITY OF TORONTO | Entrepreneurship

CREATIVE DESTRUCTION LAB

IMPACT CENTRE

UTEST
UNIVERSITY OF TORONTO EARLY-STAGE TECHNOLOGY

I-CUBE
U of T Mississauga

TheHub

DCS INNOVATION LAB

Health Innovation Hub

The ENTREPRENEURSHIP Hatchery

Start@UTIAS

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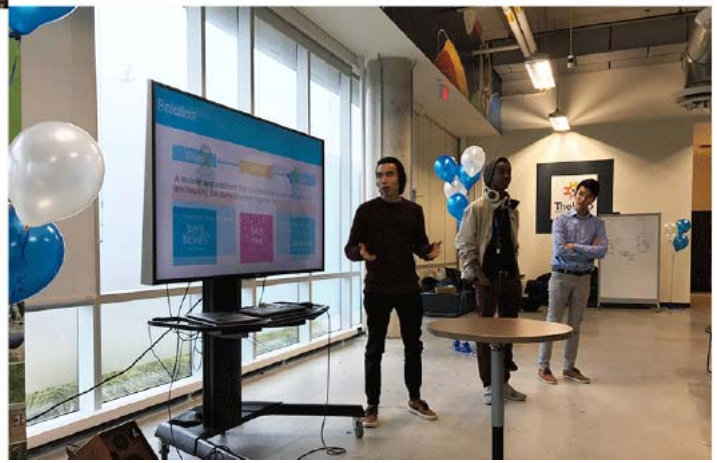
21
companies formed

5
companies successfully launched
over the past academic year

Tracking entrepreneurial performance
Over the past year, KorsAll – an e-commerce fashion platform – raised a $250,000 initial investment, and launched from The Hub. Since graduating, it has received over $3.5 million in overall follow-on backing and investment.



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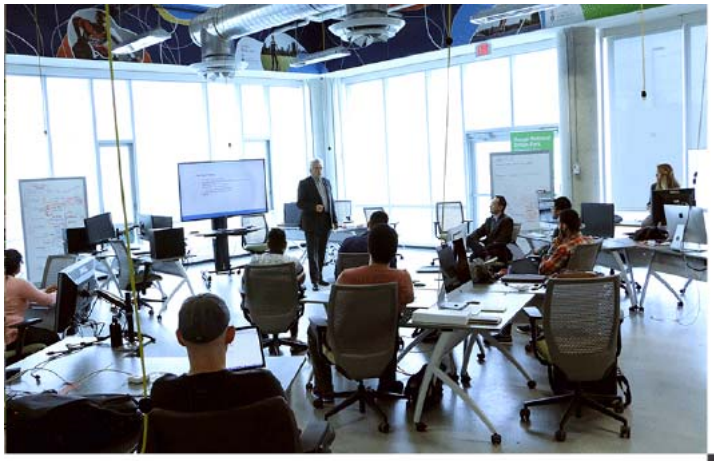

10
disciplines represented

2
award winning companies
over the past academic year

Breadth of Entrepreneurship at UTSC

Over the past year, there have been startups created from the Arts, Humanities, Social Sciences and Sciences at The Hub.

The Hub is unique in that it is one of the few early-stage incubators that includes startups from the Arts and Humanities as core to its program.

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600+
students participating

15
events and workshops

1
startup competition

$370,000+
combined revenue and investment obtained by UTSC startups prior to leaving The Hub.

$3.8+ million
received by UTSC startups as follow-on revenue and investment, post graduation

over the past academic year

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RESEARCH & INNOVATION

U of T SCARBOROUGH

2016-17

UNIVERSITY OF TORONTO SCARBOROUGH

Office of the Vice-Principal Research

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MESSAGE FROM THE VICE-PRINCIPAL RESEARCH

In September, Reuters released its Top 100: World's Most Innovative Universities list. We were delighted – though perhaps not so surprised – to see that the University of Toronto ranked first in Canada and in the top 30 in the world.

U of T Scarborough supports this reputation through our research excellence, and by the fact that our researchers ask fundamentally important questions at the forefront of knowledge and application, like: How do we respond to the invasion of Asian carp in our rivers and lakes? How do hiring practices affect an organization's reputation? What are the toxins in our soil doing to us? How can innovative mobile technology be useful to artists on the stage, and what role can theatre play in integrating marginalized populations? These are just a few of the questions highlighted in these pages, which together represent an overview of the work that's being done on our campus.

Through innovative thinking and the use of state-of-the art equipment, our faculty are tackling questions that will help to solve some of the most challenging problems of our time. Our laboratories and research groups such as the Environmental Nuclear Magnetic Resonance Centre, the Integrative Behaviour & Neuroscience Group or the Centre for Ethnography are platforms for discoveries involving international collaborators, and have a global impact in the research community.

Together with our graduate and undergraduate students, our growing academic complement includes a mix of world-leading experienced investigators as well as a new generation of some of Canada's most promising young researchers.

Our impact within the local community is no less significant than it is nationally and internationally. Our partnerships with organizations such as the Toronto Zoo, Parks Canada and the East Scarborough Storefront benefit our nearby communities, but also generate knowledge and innovations that can improve the lives of people across Canada and around the world.

I invite you to discover some of our notable award-winning researchers in this publication and, in our back pages, see the broad range of discovery that defines us as part of the most innovative institution in Canada.

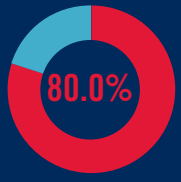
Marc Cadotte,
Acting Vice-Principal Research

IMPACT OF RESEARCH AND INNOVATION @ U OF T SCARBOROUGH IN 2016-17

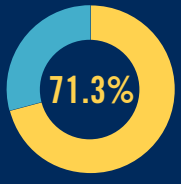
239
Research faculty

281
research grants and contracts worth
$12.8M

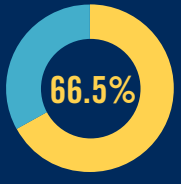
2016-17 NSERC DISCOVERY GRANTS AND SSHRC INSIGHT GRANTS SUCCESS RATES



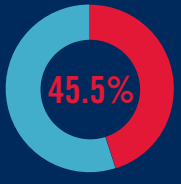
NSERC Discovery UTSC Success Rate



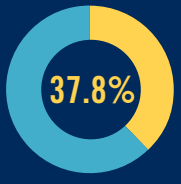
NSERC Discovery U of T Success Rate



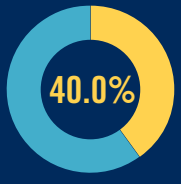
NSERC Discovery National Success Rate



SSHRC Insight UTSC Success Rate



SSHRC Insight U of T Success Rate



SSHRC Insight National Success Rate

764 Graduate students and fellows supervised by U of T Scarborough faculty:

- **179** Master's
- **475** PhD
- **110** Post-doctoral Fellows

616 publications, January 2016 to June 2017

- **473** Journal articles
- **24** Books
- **14** Book chapters
- **105** Other publications

13 prestigious faculty research awards

60 student research awards sponsored by the Office of Vice-Principal Research

$1.1 million combined revenues of startup businesses in The Hub, the entrepreneurship incubator, since 2015

$2.5 million combined follow-on capital investment in two rapidly growing startups

1300 student participants in The Hub's events since 2015

72 companies formed since 2015

Every dollar given multiplied by 10

OUR STORIES

UNDERSTANDING BACTERIAL ATTRACTION

What's a microbe like you doing on a surface like this?

That's what chemistry professor Ruby Sullan asks each time she enters her lab in the new Environmental Science and Chemistry Building at U of T Scarborough. Sullan studies the mechanisms that cause a single bacterial cell (a bacterium) to stick to a particular surface.

Out in the world, once one bacterium sticks more tend to follow. The bacteria create elaborate adhesion structures, eventually forming a "biofilm" that covers the whole surface. And problems can ensue.

Biofilms cover medical instruments, putting hospital patients at risk of infection. They eat away at plastic and rubber parts of aircraft fueling systems (microbial-induced corrosion). They coat human teeth and cause decay — dental plaque is a biofilm.

Biofilms involve complex interactions. But Sullan says it's crucial to study the initial stage, when the single bacterium first attaches. "When we know how this works at the nanoscale level, then we know how to interfere with it."

Her technique involves an atomic force microscope that lets her "get up close and personal" with a bacterium. "We study hard surfaces versus soft. Charged and non-charged. Polar and non-polar. It gives us fundamental mechanistic insights."

Sullan's research could help in the development of coatings to stop biofilms from forming.

BOOK GOES UNDERCOVER

In *Under the Cover: The Creation, Production, and Reception of a Novel*, Clayton Childress goes behind the scenes in Cornelia Nixon's historical novel *Jarrettsville*.

Published this year, Childress's book is much more than a case study; it uses *Jarrettsville* as a window into places we usually can't see.

A sociology professor at U of T Scarborough, Childress used interviews, ethnographic field work and survey data to explore the production and reception of culture. He studied author communities — writing isn't as lonely as it looks, he discovered — and the complex world of publishing. There, he found that "part of doing 'good work' means publishing books you can personally relate to and root for." But some voices get shut out.

Jarrettsville provides a case in point.

Nixon's initial draft, told from a female perspective, wasn't picked up by publishers. So in her next draft she gave equal weight to a male point of view.

Childress notes that the editor who accepted Jarrettsville "says he felt like the main male character was a friend he could relate to." That editor was actually doing "good work," Childress adds. But it shows why diversity is needed in these positions — to avoid "the massive under-representation of stories by people who don't look, sound, or think like typical acquisitions editors."

THE COSTS OF FRAGMENTING HABITATS

What happens to birds when you flood their habitat? Marc Cadotte, a biology professor at U of T Scarborough, says you stand to lose biodiversity in two ways. You lose raw diversity (that is, you have fewer species) and those that remain are very similar to one another.

A recent study, led by Cadotte's postdoctoral researcher Xingfeng Si, looked at China's Thousand Island Lake area. In 1959, a large forest was flooded for hydroelectric production. The tops of hills and mountains suddenly became islands.

Si says the area offers a unique look at what happens to wildlife when natural habitats are fragmented by human activity. For some birds, the islands were too small for nesting or finding food. On the nearby mainland there are now 55 species of terrestrial breeding birds, but on the islands it ranges from 20 to 44.

Studies like this one — co-supervised through Zhejiang University — show what happens when we fragment habitats.

"We have a lot of uninterrupted forests in Canada," says Cadotte. "But that's changing. We're moving further north, tearing up forests. We should be asking, are we happy with this arrangement? Is this what we want?"

TUNING INTO THE ETHICS OF THEATRE

Barry Freeman says theatre can — and should — bring strangers together.

His new book, *Staging Strangers: Theatre and Global Ethics*, focuses on Toronto, "where artists are increasingly telling stories about distant strangers elsewhere in the world."

Freeman, a Theatre and Performance Studies professor at U of T Scarborough, defines "stranger" as someone on the threshold, "perhaps looking to be welcomed, though perhaps never quite admitted."

And Canada's dominant culture often hasn't helped. "My students are always stunned," he says, "to learn that up until the 1950s, the so-called Potlatch ban under the Indian Act actually made some traditional forms of Indigenous performance illegal."

Other marginalized people have sometimes maintained their own performance traditions. In what Freeman calls "church basement globalism," amateur theatre groups present work within specific cultural communities.

"If you learn more about these groups, you see that they aren't strictly 'local' at all," he says, "but very importantly globally connected to the culture and politics in their homeland." This tradition continues, but is changing in response to a more globalized world. Companies such as Cahoots Theatre, Why Not Theatre and the Debajehmujig Storytellers generate understanding across cultural divides.

"Some theatre seemed to me to be calling on its audience to see, know, feel for and care about distant strangers in some way," says Freeman. "*Staging Strangers* is about trying to tune into the ethical nature of the art in how it's realized between the stage and audience."

ON THE RHODES WITH DIANA FU

Diana Fu, now a political science professor at U of T Scarborough, was a Canadian Rhodes Scholar (Prairie region) in 2006.

In 2014 she held a workshop encouraging U of T Scarborough students to apply for the prestigious award, and last year she sat on the Rhodes Scholarship panel for China. Fu, who is a first-generation immigrant from China, was joined on the panel by James Fallows (a Washington-based correspondent for *The Atlantic*) and former NBA star Yao Ming.

The most recent Rhodes Scholar from U of T Scarborough was Wojciech Gryc in 2007.

Fu says all students should be informed: "Sometimes students with more privileged backgrounds just tend to know about these opportunities, more than other students who maybe do not have the same social capital, connections and networks." She plans to hold more workshops in future.

ALUMNA HOPES TO HELP AFGHAN-CANADIAN YOUTH ACHIEVE MORE

Hossai Furmli (BSc, 2014) has often excelled in her studies. But she says she would look around and "never see other Afghans there with me."

She wanted to know why.

Furmli won a research grant in her final year at U of T Scarborough and did a qualitative study. Toronto school board data showed a low literacy rate among Afghan immigrants, and Furmli interviewed several young people to look for reasons.

"It's not that we don't have aspirations," she concluded. "It's that we don't have a realistic way of achieving them."

Furmli is now a medical student at the University of Ottawa. In 2016, she presented a poster of her undergrad study at an Action Global Health Network Conference (showing links between education and health).

She hopes to distribute the data to local organizations who can use it to help Afghan-Canadian youth.

LIVES OF CAREGIVERS AFFECT RELATIVES WITH DEMENTIA

Dementia patients are likely to die sooner if their family caregivers have poor mental health. So shows a new study from the University of California, Berkeley, co-authored by Brett Ford, a U of T Scarborough psychology professor.

"These findings suggest that by improving the lives of caregivers, we can also improve the lives of patients," says Ford.

The study tracked 176 patients with neurodegenerative disease and their caregivers (mostly spouses, but some adult children and siblings). After accounting for other risk factors — e.g., sex, age and subtype and severity of disease — it found that patients whose caregivers had high levels of mental health problems such as anxiety and depression were about 1.5 times more likely to die sooner. The reasons include more likelihood of neglect, weakened bonds (which, in relationship partners, can predict poor immune system function), more stress and the mimicking of unhealthy behaviour. And there's a vicious-circle element: additional research cited by the study showed that caregivers are four times more likely than others to be depressed.

"It may be useful to view the caregiver and patient as an interconnected system," says Ford, "where both can influence each other's lives in powerful ways."

> "These findings suggest that by improving the lives of caregivers, we can also improve the lives of patients"
>
> **Brett Ford**
> U of T Scarborough psychology professor

HOW CHRONIC HEALTH PROBLEMS AFFECT MENTAL HEALTH DURING PREGNANCY

Hilary Brown has received major funding from the Canadian Institutes of Health Research to study mental health risks for pregnant women and new mothers who have chronic physical conditions.

In general, people with such conditions tend to have poorer mental health; and people with poorer mental health, if they have chronic physical conditions, tend to develop more complications. Brown, a health studies professor at U of T Scarborough, says these links have been nearly ignored in perinatal populations.

It's surprising, she says, because pregnancy brings changes and risks — physical, hormonal, social and financial — that can trigger depression, anxiety and other mental health issues.

Brown and her team will look at physical conditions that are common among women of childbearing age, including diabetes, hypertension, asthma and autoimmune disorders. They'll track medical and socio-economic data and assess issues ranging from poverty to poorly managed chronic conditions to the impact of specific medications.

They hope to identify groups of women who should be monitored closely, and give clinicians data they can use to help prevent and treat perinatal mental illness.

"Ultimately, I hope this research will benefit the women themselves as well as their infants and families," says Brown.

ESSAY FINISHED ON IPHONE NETS $33,000 PRIZE

A history professor at U of T Scarborough has won a prestigious international prize — for an essay written partly on his phone. William Nelson's *Five Ways of Being a Painting* won the top prize of £20,000 ($33,000 CDN) in the Notting Hill Editions essay competition.

Nelson's essay explores a subtle experience of estrangement, where people step outside of themselves to reassess aspects of their lives. He started it three years ago, but didn't commit to finishing it until he heard about the Notting Hill competition. He was busy with a full course load, a family life and the writing of an academic book. So, he explains, "I set a goal to do a small section each night on my phone."

At the awards presentation in England, Nelson met the people on the short list — most of them professional writers. That made his win an even greater achievement and surprise.

PSYCHOLOGY PHD STUDENT HONOURED FOR DEPRESSION STUDY

Receiving an award from the Natural Sciences and Engineering Research Council of Canada is an honour, but ranking third in your category across the country takes it another step. This recently happened to Lê-Anh Dinh-Williams, a PhD student in the Graduate Department of Psychological Clinical Science at U of T Scarborough.

Dinh-Williams is studying the neurobiology of depression. For her master's degree, she explored how people's reactions to basic rewards (e.g., winning a card game) can affect vulnerability to depression. "Now," she says, "I'm motivated to examine whether this also applies to more meaningful sources of positive emotions." The department, established in 2013, has 21 enrolled students but has generated more than $1.8 million in student funding. Zindel Segal, Director of Clinical Training, points to the training model: "There are a variety of programs emphasizing clinical training, but ours emphasizes clinical science." From about 200 applications per year, only five students are admitted.

MEXICO'S SUPERMARKET REVOLUTION

When foreign retailers move into a developing country, household welfare may improve because of a reduced cost of living. So shows a recent study by Marco Gonzalez-Navarro, a management professor at U of T Scarborough.

The study, co-authored with David Atkin of MIT and Benjamin Faber of UC Berkeley, looked at Mexico. It found that prices were 12 per cent lower at large foreign retailers, who also offered a greater variety of goods, better hygiene and more parking. Also, says Gonzalez-Navarro, "prices at local retailers went down in order to compete." On average, household welfare increased by six per cent.

The study used data from 2002 to 2014, during Mexico's "supermarket revolution," when large foreign retailers entered small and mid-size municipalities after the ratification of NAFTA — a unique chance to study hundreds of experiences of foreign retailer entry.

Were there welfare losses too? Yes, but relatively small. For example, a typical municipality showed a 2.6 per cent reduction in the number of traditional retailers.

Gonzalez-Navarro says many governments in developing countries are "understandably nervous" about opening their retail sectors to foreign competition, fearing the impact on small retailers. But the study found little empirical evidence of widespread job loss or lower local income.

"I think if you were to tell politicians that they could increase household income by six per cent without costing them anything in terms of spending, they would jump all over it."

ACT FAST TO STOP THE GRASS CARP INVASION

The Asian grass carp poses a significant threat to the Great Lakes. This is the major finding of a risk assessment led by Fisheries and Oceans Canada and co-ordinated by the bi-national Great Lakes Fishery Commission. The research team included Nick Mandrak, a biology professor at U of T Scarborough.

Not all invasive species have a high ecological impact, says Mandrak, but grass carp are different. They can consume 40 per cent of their body weight per day, growing too large to have natural predators in the Great Lakes. And they produce a lot of eggs.

The species was brought to North America in the 1960s, used for bio-control mostly in the catfish industry. "They escaped from those controlled environments into the wild," says Mandrak. They've migrated up the Mississippi and been found in Lakes Michigan, Erie and Ontario.

They can decimate wetlands, which are important spawning habitats for native fish. The Vaal River in South Africa lost 13 of its 14 aquatic species of vegetation within two years of grass carp being introduced.

In the Great Lakes, says Mandrak, "the economic impacts would be significant, especially when you look at commercial fishing and tourism."

On the upside: It's still early in the invasion curve. The grass carp populations can be eradicated if we act fast. The assessment informs us about the risk, says Mandrak. "Now we need to figure out what next steps can be taken."

ENGLISH PROF SCREENS SHORT FILM AT TIFF

Daniel Scott Tysdal always dreamed of going to film school. So that's what the U of T Scarborough English professor did on his recent sabbatical. His short film, Film Frame, ended up being screened at the Toronto Short Film Festival.

Film Frame came from a class assignment to take inspiration from another work of art. Tysdal chose John Barth's short story "Frame Tale, " which plays on the phrase, "Once upon a time there was a story that began." The story, he explains, "goes on endlessly in a loop with that phrase."

Tysdal, who is also a noted poet, echoed Barth in two ways: creating an "endless" film in which each opening scene introduces a new opening scene; and using a "Once upon a time" motif. He also wove in scenes from famous movies. Someone watches the opening of *2001: A Space Odyssey* on a laptop. Someone watches the opening of *Apocalypse Now* on a cellphone on the TTC.

Tysdal found it refreshing to be a student again, and to see teaching techniques from that perspective. "Getting out of your comfort zone to learn something new is important. You don't know where it will take you."

> "Getting out of your comfort zone to learn something new is important. You don't know where it will take you."

Daniel Scott Tysdal
English professor

TECHNOLOGY HELPS UNDERSTAND EFFECTS OF TOXINS

"It's no longer good enough to say a substance is toxic," says Andre Simpson. "We need to know what it's doing to us." This requires new technology that Simpson and his research team are currently developing with the help of a Strategic Partnership Grant from the Natural Sciences and Engineering Research Council of Canada.

The technology — called a digital microfluidic-microcoil NMR discovery platform — relies on nuclear magnetic resonance (NMR) spectrometers, and this is where the "Strategic Partnership" comes in. Simpson, a chemistry professor at U of T Scarborough, is collaborating with BrukerS, a company that develops magnetic resonance instruments, and with U of T Professor Aaron Wheeler.

So small that it can be described as a chemistry lab on a microchip, the new technology will be powerful enough to interpret how specific molecules in various toxins affect living organisms in real time. As a prime example of its potential, Simpson points to its ability to monitor a change in amino acids, sugars, DNA and other complicated biochemical processes in the body in real time.

"If something is causing amino acids or sugars to rise, and those levels don't return to equilibrium, we can show that a permanent change in biochemistry took place," he says. "That's where we can set evidence-based policies around chronic exposure."

STARTUP SAVES WASTE

A machine that can turn restaurant food waste into marketable materials is being developed by Genecis, an alumni startup at U of T Scarborough.

Genecis founder and CEO Luna Yu and her four colleagues, all Environmental Science students, are testing a prototype in the Scarborough area. The aim is to convert food waste into a substance that can be collected and sold to companies who will use it to make biofuel, pharmaceuticals and biodegradable plastics — an easy, cost-efficient way to keep commercial kitchen waste out of landfills.

Yu says a single machine will be able to offset 243 tonnes of carbon dioxide emissions every year. "Standard passenger vehicles release 4.7 tonnes of CO_2 every year, which means a restaurant can offset the emissions of 51.7 cars just by using one of our machines."

Genecis has received mentorship from U of T Scarborough's entrepreneurship incubator, The Hub, and won top prize at The Hub's startup competition. In 2017, it placed second in the early-stage category at the inaugural RBC Prize for Innovation and Entrepreneurship, an annual business-pitch competition for innovative technologies and startups at U of T.

BAD EXPERIENCES CAN MAKE YOU MORE EXTREME POLITICALLY

Whether you lean left or right, a new study shows that adverse life events can lead you to a more extreme political position.

"It's not an on/off switch," says lead author Daniel Randles, a post-doc in the Department of Psychology at U of T Scarborough. "It's a slow movement towards either end of the spectrum."

The study drew on an existing survey of 1,600 Americans who were repeatedly polled between 2006 and 2008 about their political attitudes as well as negative events in their lives. The events included divorce, illness, job loss, injury and assault.

"After facing adversity, these respondents weren't saying about an issue *maybe* this is OK. They were either saying this is *definitely* OK or this is *definitely not* OK," says Randles.

As a possible explanation, he points to other research that suggests they may have been looking "for things in the world that are still intact or make sense to them."

Does Randles's study shed light on recent political events? He stresses that he's not a political scientist, but says, "It's possible that more extreme candidates are becoming popular because the people who support them have a growing number of challenges in their lives."

TRYING TO REMEMBER SOMETHING? FORGET IT!

Forgetting may be just as valuable a function as remembering. So shows a new study by Blake Richards, a biology professor at U of T Scarborough, and Paul Frankland, a physiology professor at U of T and senior scientist at SickKids.

In the past, it's often been assumed that forgetting is a failure of the cellular mechanisms involved in storing information. But the reality appears more complex. For example, recent work in Frankland's lab showed that the growth of new neurons in the hippocampus seems to promote forgetting. Since the hippocampus generates more cells in young people, this may help to explain why we seldom have memories from before age four.

Richards says there are two good reasons for forgetting:

"If you're trying to navigate the world and your brain is constantly bringing up multiple conflicting memories, that makes it harder for you to make an informed decision."

The other reason reflects a concept called regularization, used in models for artificial intelligence.

In order to make generalizations based on large amounts of data, there needs to be some forgetting of details. This way, core information can be prioritized.

"The point of memory is to make you an intelligent person who can make decisions given the circumstances," says Richards. It's not about "who won the Stanley Cup in 1972."

> **"If you're trying to navigate the world and your brain is constantly bringing up multiple conflicting memories, that makes it harder for you to make an informed decision."**

Blake Richards
Biology professor

> **“The ultimate hope is that it will lead directly to new drugs — and a much deeper understanding of how life works at the atomic level.”**

Ali Punjani
PhD student in Computer Science

3D MODELS OPEN DOORS FOR TREATING DISEASE

Researchers at U of T Scarborough have developed new algorithms that can generate 3D structures of protein molecules. This may revolutionize the development of drugs for diseases from Alzheimer’s to cancer.

“Designing successful drugs is like solving a puzzle,” says Ali Punjani, who helped develop the algorithms. Drugs work by binding to a protein molecule and changing its shape — ideally binding only to the specific protein(s) involved in a disease, to avoid side effects. Punjani, a PhD student in Computer Science, says without knowing the 3D shape of the protein, it’s like “trying to solve that puzzle with a blindfold on.”

Since proteins are tiny, determining their shape requires a sophisticated technique such as electron cryomicroscopy, which produces multiple images of a protein sample from different positions. The computational challenge, then, is to piece together the 3D structure from the 2D images.

The new research solves some of the major problems that existed in the past, says Professor David Fleet, Punjani’s PhD supervisor. The algorithms provide a faster and more consistently correct means of arriving at the 3D structure.

The algorithms were co-developed with Professor Marcus Brubaker of York University and the research included a collaboration with Professor John Rubinstein of U of T.

“We hope this will allow discoveries to happen at a groundbreaking pace,” says Punjani. “The ultimate hope is that it will lead directly to new drugs — and a much deeper understanding of how life works at the atomic level.”

APP FOR ABSENT DANCERS

Choreography and technology come together in StageKeep, a wearable app that is being developed by two U of T Scarborough alumni, Axel Villamil (BSc, 2017) and William Mak (BSc, 2015).

Villamil first had the idea while dancing with a UTSC group, SC SWAG. Students sometimes had to arrive late for rehearsals, making it "hard to visualize where we were going."

StageKeep will help. It will calculate the size of a performance space, number of dancers, time between beats, and how much space and time each dancer has to complete a move. The need for rehearsal time could drop by 50 per cent.

A bracelet developed by Villamil and Mak will track a dancer or choreographer performing a base routine, then track how other dancers match it. It will calculate dancers' accuracy, track their improvement over time and highlight problem areas.

Performers have told Villamil that they welcome this statistical feedback — rather than relying only on people's opinions. He hopes the app will reduce subjectivity in the hiring and training of dancers.

The pair, who developed their business plan with help from The Hub, hope to eventually tailor StageKeep to other performing arts — how actors move across a stage, for example, or how a car moves on a film set.

BAD HIRING PROCESS CAN LEAD TO BAD REPUTATION

Few people actually like applying for jobs. But Julie McCarthy's new research shows that organizations need to care about the applicant's experience.

The U of T Scarborough management professor has co-authored a review study with colleagues in the U.S. and U.K. She says standardized tests — now the norm in many organizations — can be valuable tools when properly conducted. But how applicants react to the test process is important.

"There's strong evidence that if people feel the process is unfair, biased, or causes anxiety, it can lead to negative reactions towards the organization," says McCarthy. "Even if they accept the job they may be more likely to quit. It can even have an effect on job performance."

And it goes further yet. The study indicates that if applicants have a negative experience, they'll be less likely to buy that company's products in future — even if they enjoyed them before.

"This is particularly problematic for large corporations that receive hundreds or even thousands of applications a day," says McCarthy. "A poorly conceived application process could affect their bottom line."

SAMPLING THE AIR OF REMOTE VOLCANOES

David McLagan's research takes him to some interesting places — for example, a geothermal field in New Zealand called Craters of the Moon, barren and unearthly with endless steam vents dotting the landscape.

But the U of T Scarborough PhD student says his trip to an active volcano (also in New Zealand) tops the list. He wore a mask to avoid passing out from noxious vapours, and walked with a prodder to check for soft spots that could burn the feet.

McLagan was there to check for mercury, which can last in the atmosphere for around a year, can travel great distances and is linked to a host of brain and nervous system disorders. He deployed a series of air samplers that he is developing under the supervision of chemistry professor Frank Wania and environmental science professor Carl Mitchell.

McLagan's air samplers are passive, using a carbon material and the natural movements of air. This is crucial in remote locations with no electricity and no access to tanks of argon gas, which active air samplers need.

Air sampling for mercury is common in affluent countries, says McLagan, but fewer than 10 remote sites in the Southern Hemisphere are currently doing it. His ultimate goal is to help resolve this imbalance. "Being able to go to these places and collaborate with researchers from around the world is just a great professional and personal experience."

GREAT HEARING, EASILY DISTRACTED

Ormia ochracea — a nocturnal yellow fly — has the best directional hearing of any creature. A great model for bio-inspired technology? Yes. But new research has found a complication.

The research was conducted by Andrew Mason, a biology professor at U of T Scarborough and, as lead author, his former PhD student Norman Lee, now a professor at St. Olaf College.

Mason explains that the female *Ormia* uses its exceptional hearing to locate the songs of male crickets, where it deposits its larvae (which eat the cricket alive). Instead of two separate ears, the *Ormia* has two eardrums that are connected. When one vibrates from a sound wave, it pushes the other. The very brief time difference involved lets the fly determine where the sound is coming from.

The flies are tiny, says Mason, "relative to the wavelength of the sound." They can localize it only because of their coupled eardrums.

Engineers could use the same principle in artificial sensors where size is an issue — e.g., hearing aids. But the study found that *Ormia's* special hearing system prevents it from using SRM (spatial release from masking), a technique that allows most animals to deal with distracting noises — like tracking one conversation at a crowded party.

Lab tests showed that a distracting noise to one side diverts the *Ormia* away from the all-important cricket sound.

Somehow, says Mason, the fly overcomes this apparent limitation in nature. How? This is an important area for his future research.

RESEARCH FOR THE PEOPLE, BY THE PEOPLE

"Transdisciplinary research" — when academics and non-academics work together to design, execute and interpret studies — is becoming more common in many disciplines. Nicole Klenk is interested in the complex relationships involved.

Klenk, an environmental science professor at U of T Scarborough, thinks academics' devotion to scientific method sometimes diminishes the real-world value of their research.

"In climate science, for instance, questions are answered dominantly through quantitative analyses. Research that deals with in-depth experiential knowledge — from, say, fishermen or farmers who are tied to certain space and place — may not be easily aggregated into this."

She relates an instance where engineers, analyzing the sustainability of Caribbean coffee plantations, didn't want to incorporate the personal narratives of local growers. They finally *did* — fortunately, since that information was just as necessary as the objective data about rainfall and yields. Without it, the results would have been useless to the growers.

At the same time, Klenk says non-academic partners can derail a project or damage its credibility.

"The whole point of the scientific method is to show that knowledge works consistently and we can trust it. When you open yourself up to different types of knowledge, does that mean anything goes? That can't be. But I struggle with who adjudicates those different types of knowledge."

For academics, she believes it's sometimes necessary to "let go of power" and sometimes necessary to "reinforce that expert role and try to keep those boundaries clear."

> **"The whole point of the scientific method is to show that knowledge works consistently and we can trust it."**
>
> **Nicole Klenk**
> **Environmental Science professor**

AI EXPERT RECOGNIZED FOR LIFE'S WORK

Graeme Hirst has won the 2017 Lifetime Achievement Award from the Canadian Artificial Intelligence Association (CAIAC).

A computer science professor at U of T Scarborough, his research includes breakthrough work in detecting Alzheimer's disease from a person's writing. His paper on semantic similarity is considered a foundational piece, as is his doctoral dissertation on the automatic resolution of linguistic ambiguity. Also, since 2008, he has edited the *Synthesis* series of books on human language technologies.

Hirst sits on the executive of the international Association for Computational Linguistics and has also been active in CAIAC, whose newsletter he revamped in the 1980s to create a magazine called *Canadian Artificial Intelligence*. It was pivotal in bringing researchers together. At a time of rapid advancement in AI, Hirst helped build momentum in Canada.

He says he's been fortunate. "I finished my undergraduate studies just at the time of the first breakthroughs in computational linguistics. My PhD supervisor, Eugene Charniak, was one of the leaders of the field."

Hirst has won teaching awards in his 31 years at UTSC, and has supervised students such as Julie Payette, Canada's second woman in space, and Kathleen Fraser, recent winner of a Governor General's Gold Medal.

"Fraser's win is going to be a favourite memory from now on," he says. "And then there are all the students that didn't win a Governor General's Gold Medal — though they probably should have."

IS THERE ANOTHER EARTH? SCIENTIST ANSWERS A FEW QUESTIONS

"Are we alone?"

Earlier this year, a NASA announcement brought this question to the fore. The discovery of seven Earth-sized planets orbiting a single star has been hailed as an accelerated leap forward in the search for extraterrestrial life.

But what does it all mean, in layperson's terms? Dan Tamayo, a researcher at U of T's Centre for Planetary Sciences, answers three key questions:

HOW BIG A DISCOVERY IS THIS?

This is a huge deal, way bigger than previous discoveries. These are all small planets, and we expect there are billions of them in our galaxy. But planets this small are really hard to detect.

Most of the exoplanets [planets orbiting a star other than our sun] that we've discovered are bigger and therefore probably more gaseous, like Neptune or Jupiter.

It's exciting because these planets may have a solid surface capable of hosting biological life.

WILL WE LEARN MORE WHEN THE JAMES WEBB SPACE TELESCOPE (JWST) LAUNCHES IN 2018?

The JWST is right in the sweet spot to observe the atmospheres of these planets. Because they're so close to Earth, it may be possible to detect whether they have ozone. That wouldn't be a slam dunk for life, but would make them prime exoplanets to study.

WHAT ELSE WOULD WE LOOK FOR?

Liquid water is essential to life on Earth, so it makes sense to look for life on planets that are not too hot or cold for surface water. Of course, not all life in the universe needs to rely on liquid water. But, pragmatically, it's a good starting point.

INFRASTRUCTURE SUPPORT

- Greenhouse in the Science Research Building
- Teaching and Research in Analytical Chemical and Environmental Science (TRACES) Lab
- University of Toronto Koffler Scientific Reserve at Jokers Hill
- UTSC Library Finance & Trading Lab
- UTSC Library Makerspace
- UTSC Observatory

RESEARCH CENTRES

- Centre for Biological Chemistry
- Centre for Ethnography
- Centre for the Neurobiology of Stress
- Centre for Planetary Sciences
- Culinaria Research Centre
- Environmental Nuclear Magnetic Resonance Centre
- Integrative Behaviour and Neuroscience Group
- Plant Cellular and Molecular Processes Group

FACULTY AWARDS

Canada Research Chairs

Canada Research Chair in Integrative Perspectives on Personality 2016-2021
Brian Connelly
Management

Canada Research Chair in Bioelectrochemistry of Proteins 2016-2021
Kagan Kerman
Physical & Environmental Sciences

Canada Research Chair in Spatially Resolved Biochemistry 2016-2021
Bebhinn Treanor
Biological Sciences

Ministry of Research, Innovation and Science

Early Researcher Award 2017
Steven Farber
Human Geography

Early Researcher Award 2017
Artur Izmaylov
Physical & Environmental Sciences

Early Researcher Award 2017
Daniel Roy
Computer & Mathematical Sciences

Royal Society of Canada

Fellow 2017
Frank Wania
Physical & Environmental Sciences

Alfred P. Sloan Foundation

Alfred P. Sloan Foundation Sloan Research Fellowship 2016
Stefanos Aretakis
Computer & Mathematical Sciences

University of Toronto Scarborough Internal Awards

University of Toronto Scarborough Research Recognition Award 2017
Li Chen
Historical and Cultural Studies

University of Toronto Scarborough Principal's Research Award 2017
James Donaldson
Physical & Environmental Sciences

University of Toronto Scarborough Research Excellence Faculty Scholar 2017-2020
Jennifer Chun
Sociology

University of Toronto Scarborough Research Excellence Faculty Scholar 2017-2020
Jeffrey Pilcher
Historical and Cultural Studies

University of Toronto Scarborough Research Excellence Faculty Scholar 2017-2020
Myrna Simpson
Physical & Environmental Sciences

STUDENT AWARDS

U of T Scarborough Undergraduate Research Poster Forum 2016-17 (Sponsored by the Library and the Office of the Vice-Principal Research)

FIRST PLACE:

Tasneem Ezzy
Biological Sciences

SECOND PLACE (GROUP):

Dilakshan Srikanthan, Sumaya Dano, Luke Ajay David, Nimra Javaid, and Amanda Yee
Biological Sciences

3RD PLACE (TIE):

Ayesha Tasneem
Biological Sciences

Steven Chang
Physical & Environmental Sciences

Maegan Evelyn Sweeney
Physical & Environmental Sciences

Graduate Student Research Award 2016-17

Sonya Dhillon
Psychology (Master's student)

David McLagan
Physical & Environmental Sciences (PhD student)

U of T Scarborough Undergraduate Research Prize 2016-17(Sponsored by the Library and the Office of the Vice-Principal Research)

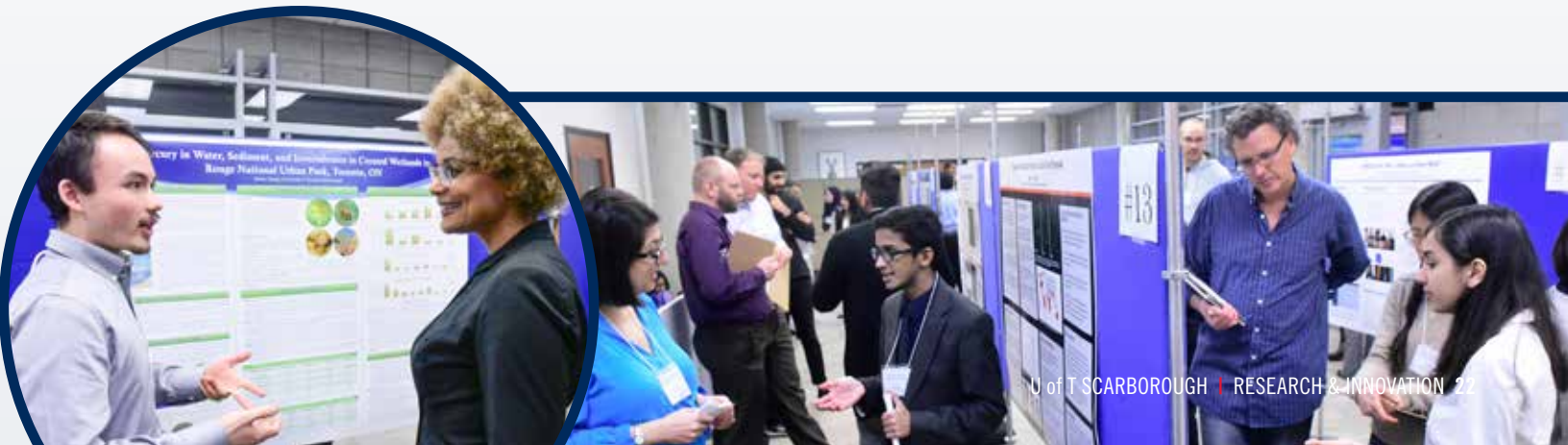
Garimah Shah
Psychology

Monica Shah and Abdulwahab Sidiqi
Centre for French and Linguistics

Janesa Tam
Centre for French and Linguistics

Graduate Student Travel Grant 2016-17

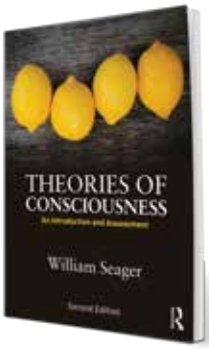
50 travel grants totaling $18,600



BOOKS PUBLISHED BY U OF T SCARBOROUGH RESEARCH FACULTY IN 2016-17

HISTORICIZING THE PAN AMERICAN GAMES

Bruce Kidd
Cesar R. Torres



THEORIES OF CONSCIOUSNESS: AN INTRODUCTION AND ASSESSMENT

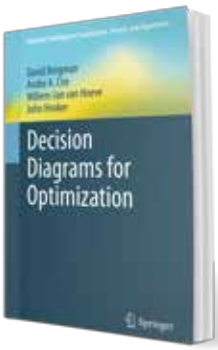
William Seager

STAGING STRANGERS

Barry Freeman

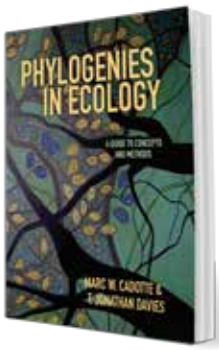
THE ANIMAL GAME

Daniel E. Bender



DECISION DIAGRAMS FOR OPTIMIZATION

David Bergman
Andre A. Cire
Willem-Jan van Hoeve
John Hooker

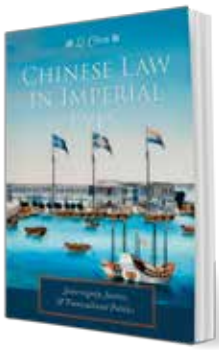


PHYLOGENIES IN ECOLOGY

Marc W. Cadotte
T. Jonathan Davies

READING IN A SECOND LANGUAGE

Xi Chen
Vedran Dronjic
Rena Helms-Park

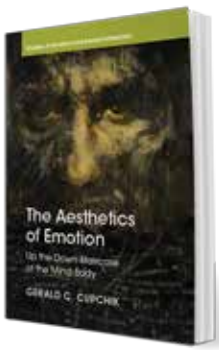


CHINESE LAW IN IMPERIAL EYES

Li Chen

UNDER THE COVER

Clayton Childress

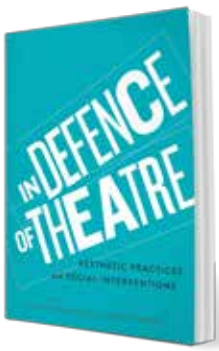


THE AESTHETICS OF EMOTION

Gerald C. Cupchik

SISTERS OR STRANGERS?

Marlene Epp
Franca Iacovetta

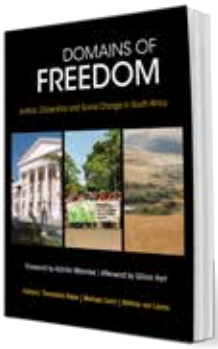


IN DEFENCE OF THEATRE

Kathleen Gallagher
Barry Freeman

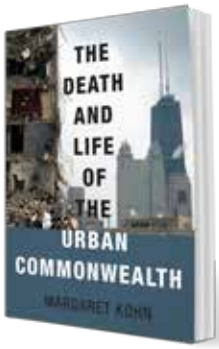
SOCIAL NEUROSCIENCE

Eddie Harmon-Jones
Michael Inzlicht



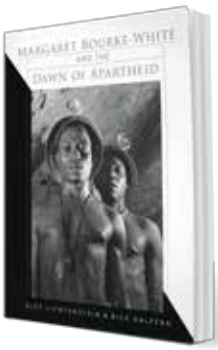
DOMAINS OF FREEDOM

Thembeka Kepe
Melissa Levin
Bettina von Lieres



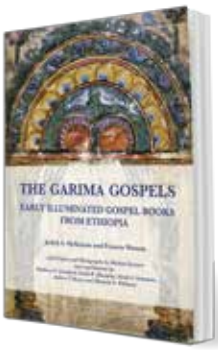
THE DEATH AND LIFE OF THE URBAN COMMONWAELTH

Margaret Kohn



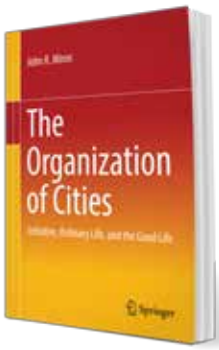
MARGARET BOURKE-WHITE AND THE DAWN OF APARTHEID

Alex Lichtenstein
Rick Halpern



THE GARIMA GOSPELS

Judith S. McKenzie
Francis Watson

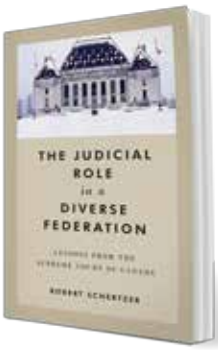


THE ORGANIZATION OF CITIES

John R. Miron

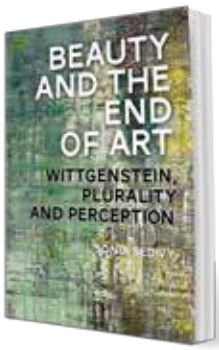
INSECT HEARING

Gerald S. Pollack
Andrew C. Mason
Arthur N. Popper
Richard R. Fay



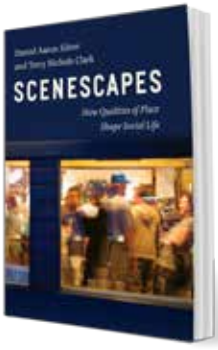
THE JUDICIAL ROLE IN A DIVERSE FEDERATION

Robert Schertzer



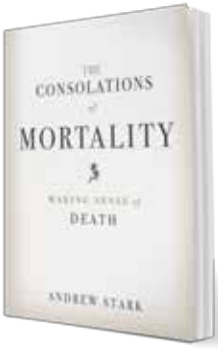
BEAUTY AND THE END OF ART

Sonia Sedivy



SCENESCAPES

Daniel Aaron Silver
Terry Nichols Clark



THE CONSOLATIONS OF MORTALITY

Andrew Stark

THE POLITICS OF INCLUSIVE DEVELOPMENT

Judith A. Teichman

RESEARCH FUNDING 2016-17

Research funding data from the University of Toronto Research Information System award report generated on September 19, 2017, non-prorated, Grant Year April 1, 2016 - March 31, 2017.

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Aggarwal, Pankaj	Department of Management	Social Sciences & Humanities Research Council (SSHRC)	Insight Grant	Of People, Animals and Things: Anthropomorphizing Brands and Dehumanizing People	**$21,667.00**
Ahmad, Aisha	Department of Political Science	Norwegian University of Life Sciences	Norwegian Research Council subgrant	The Jihadist War Economies Project	**$74,260.00**
Andrade, Maydianne	Department of Biological Sciences	Natural Sciences and Engineering Research Council of Canada (NSERC)	Discovery Grants	Examining Links Between Behaviour, Plasticity and Diversification Under Environmental Heterogeneity Using Broadly Distributed Spiders	**$41,000.00**
Arhonditsis, George	Department of Physical & Environmental Sciences	Environment Canada	Operating Contract	Integrated Watershed-Receiving Waterbody Model for Lake Simcoe	**$31,250.00**
Arhonditsis, George	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	**$59,958.21**
Arhonditsis, George	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**
Arhonditsis, George	Department of Physical & Environmental Sciences	Environment Canada	Research	A Bayesian Ensemble Watershed Modelling Strategy to Support Adaptive Management Implementation in the Southeastern Georgian Bay Area	**$84,000.00**
Arhonditsis, George	Department of Physical & Environmental Sciences	Environment Canada	Research	Towards Linking Water Level Fluctuations with Water Quality in South-Eastern Georgian Bay: An Adaptive Management Approach	**$72,000.00**
Arhonditsis, George	Department of Physical & Environmental Sciences	Environment Canada	Great Lakes University Research Fund	Determination of the Best Management Practices in the Napanee River Watershed	**$60,000.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Arhonditsis, George	Department of Physical & Environmental Sciences	Environment Canada	Great Lakes University Research Fund	Integrated Modelling to Assess Phosphorus Best Management Practices in Hamilton Harbour	**$60,000.00**
Arhonditsis, George	Department of Physical & Environmental Sciences	Mathematics of Information Technology and Complex Systems (MITACS)	MITACS-Elevate (PDF)	Guiding Delisting Decisions in the Great Lakes Area: Development of a Bayesian Risk Assessment Methodology	**$57,500.00**
Arhonditsis, George	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	A Bayesian Framework to Study the Effects of Hydrological Extremes Under Present and Future Climate Conditions	**$38,000.00**
Arruda-Carvalho, Maithe	Department of Psychology	Canada Foundation for Innovation (CFI)	John R. Evans Leaders Fund	Maturation of Sensitive Circuits Underlying Early Life Stress	**$180,000.00**
Arruda-Carvalho, Maithe	Department of Psychology	CFI	Infrastructure Operating Fund	Maturation of Sensitive Circuits Underlying Early Life Stress	**$54,000.00**
Arruda-Carvalho, Maithe	Department of Psychology	Ontario Ministry of Research, Innovation and Science	Small Infrastructure Fund - JELF	Maturation of Sensitive Circuits Underlying Early Life Stress	**$180,000.00**
Birn, Anne-Emanuelle	Department of Political Science	Canadian Institutes of Health Research (CIHR)	Open Operating	Health Diplomacy at a Corssroads: Social Justice-Oriented South-South Cooperation in a Time of Global Change	**$25,000.00**
Bisaillon, Laura	Department of Anthropology	SSHRC	Operating Grant	Research Support for Media Analysis	**$407.00**
Blouin, Katherine	Department of Historical and Cultural Studies	SSHRC	Insight Development Grant	Living on the Edges: Cultural Landscapes in the Hellenistic and Roman Eastern Nile Delta	**$30,700.00**
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	NSERC	Discovery Grants	The Role of Stress in Natural Populations	**$51,000.00**
Borins, Sandford	Department of Management	SSHRC	Insight Grant	Extending the Reach of a Methodology for Studying Narratives About Politics and Government	**$7,615.00**
Borins, Sandford	Department of Management	SSHRC	University of Toronto Excellence Award - SSH	Extending a Methodology for Studying Narratives About Politics and Government	**$6,000.00**
Borins, Sandford	Department of Management	SSHRC	Operating Grant	Analysis of Conflicting Narratives in National Election Campaigns	**$1,000.00**
Bowen, William	Department of Arts, Culture & Media	SSHRC	Aid to Scholarly Journals	Renaissance and Reformation / Renaissance et Réforme (SSHRC Aid to Scholarly Journal)	**$29,729.00**
Brown, Hilary	Department of Anthropology	Women's College Hospital	Women's Xchange Project Funding	Pilot Randomized Controlled Trial of an Interconception Intervention Provided by Public Health Nurses to Improve Reproductive and Perinatal Outcomes	**$14,991.00**
Brown, Ian	Department of Biological Sciences	CFI	Infrastructure Operating Fund	Centre for Neurobiology of Stress (CNS)	**$145,506.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
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**
Cadotte, Marc	Department of Biological Sciences	NSERC	Discovery Grants	Biodiversity and the Delivery of Ecosystem Services in Novel Landscapes	**$37,000.00**
Cadotte, Marc	Department of Biological Sciences	TD Bank Group	Operating Donation	TD Limited Term Professorship in Urban Forest Conservation and Biology	**$166,666.66**
Cant, Jonathan	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	Do Countries Matter for Information Diffusion in Financial Markets? Evidence from Global Supply-Chain Networks	**$8,994.00**
Chan, Cindy	Department of Management	SSHRC	Operating Grant	Experiential Consumption	**$2,000.00**
Chan, Leslie	Centre for Critical Development Studies	International Development Research	Science & Innovation - Information and Network	Catalysing Open and Collaborative Research to Address Development Challenges	**$229,571.12**
Charise, Andrea	Department of Anthropology	SSHRC	University of Toronto Excellence Award - SSH	Student Perceptions of Canada's First Undergraduate Health Humanities Curriculum: A Focus Group Study	**$6,000.00**
Childress, Clayton	Department of Sociology	SSHRC	Insight Development Grant	Diversity, the Booker Prize, and Long Term Literary Acclaim	**$22,616.00**
Chun, Jennifer Jihye	Department of Sociology	SSHRC	Insight Grant	Protesting Publics in South Korea	**$49,713.00**
Chun, Jennifer Jihye	Department of Sociology	SSHRC	University of Toronto Excellence Award - SSH	Protesting Publics in South Korea	**$6,000.00**
Cire, Andre	Department of Management	Connaught Fund	New Researcher Award	Decision Analytics for Home Healthcare	**$7,800.00**
Cire, Andre	Department of Management	NSERC	Discovery Grants	Optimization with Decision Diagrams: Theory and Applications	**$24,000.00**
Cochrane, Christopher	Department of Political Science	SSHRC	Insight Grant	Ideology, Institutions, and the Evolution of Canadian Parliamentary Behaviour, 1867-2016	**$26,856.00**
Cree, George	Department of Psychology	NSERC	Discovery Grants	Semantic Cognition: Behavioral, Computational and Eeg/Erp Based Analyses of Semantic Content, Structure, and Processing	**$27,000.00**
Daswani, Girish	Department of Anthropology	SSHRC	Operating Grant	Conduct Research on Social Activism and on the Social Commentary on Corruption in Ghana	**$1,700.00**
Dewar, Genevieve	Department of Anthropology	SSHRC	Insight Grant	Human Landscape Use During MIS 3 and MIS 2 in Southern Africa	**$74,952.00**
Dittrich, Maria	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 Diagenetic Modeling Study	**$57,600.00**
Dittrich, Maria	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	**$89,499.07**
Dittrich, Maria	Department of Physical & Environmental Sciences	MITACS	MITACS-Elevate (PDF)	Towards a Sustainable Antibiofilm Technology Based on Natural Materials	**$50,000.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Dittrich, Maria	Department of Physical & Environmental Sciences	MITACS	MITACS-Elevate (PDF)	Development of an Integrated Modelling Framework for Eutrophication Risk Assessment and Adaptive Management Implementation	**$55,000.00**
Dittrich, Maria	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Organo-Mineralization in Microbial Mats: Linking Field, Laboratory and Metagenomic Studies	**$22,000.00**
Dittrich, Maria	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	**$35,053.34**
Donaldson, James	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Atmospheric and Interfacial Reaction Dynamics	**$43,000.00**
Drouin, Sebastien	Centre for French and Linguistics	SSHRC	Insight Grant	Correspondances de journalistes II. Circulation du livre et de l'information littéraire dans l'Europe des premières Lumières	**$18,898.00**
Ekers, Mike	Department of Human Geography	SSHRC/Lakehead University	SSHRC subgrant	The Antinomies of Non-Wage Labour in Ontario's Agricultural Sector and the Alternative Food Movement	**$7,000.00**
Enright, Wayne	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	The Development of Reliable Numerical Software for the Investigation of Systems of Differential Equations	**$26,000.00**
Erb, Suzanne	Department of Psychology	NSERC	Discovery Grants	Impact of Early Developmental Experience on Cocaine-Stress Interactions in Adulthood: An Exploration of Behavioural, Physiological, and Neural Mechanisms	**$31,000.00**
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	University of Toronto Excellence Award - NSE	Prior Elicitation for Probabilities and Checking for Prior-Data Conflict	**$4,875.00**
Evans, Michael	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Bayesian Inference and Relative Belief, Theory and Applications	**$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	SSHRC	Syrian Refugee Arrival, Resettlement & Integration	The Transportation Barriers to Refugee Participation and Settlement in Durham Region	**$24,737.00**
Farber, Steven	Department of Human Geography	SSHRC/Concordia University	SSHRC PDG subgrant	The Datamobile Partnership: An Open Platform for Spatialized Data Collection and Analysis	**$6,500.00**
Fedko, Sarah	Library	SSHRC	Dissemination activities	Online Learning and Learning Technologies	**$393.60**
Fleet, David	Department of Computer & Mathematical Sciences	Canadian Institute for Advanced Research (CIFAR)	Operating Grant	CIFAR Fellowship for Teaching Release	**$20,000.00**
Fleet, David	Department of Computer & Mathematical Sciences	Connaught Fund	Innovation Award	Advanced Algorithms to Discover Protein Structures for Drug Design	**$70,000.00**
Fleet, David	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Looking at People and Large-Scale Vision	**$73,000.00**
Fleet, David	Department of Computer & Mathematical Sciences	NSERC	Engage Grants (EG) Program	Video-Based Face Verification for Biometrics	**$25,000.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
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	Globalink	Characterization of Endophytes with Potential to Enhance Phytoremediation of Hydrocarbon Contaminated Soils	**$10,000.00**
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	Environmental and Hormonal Control of Seed Development and Germination	**$27,000.00**
Gervers, Michael	Department of Historical and Cultural Studies	Arcadia Foundation	Research Grant	Contemporary Rock-Hewn Church Excavation in Ethiopia	**$27,051.55**
Goghari, Vina	Department of Psychology	CIHR	New Investigator Salary Award	Facial Emotion Recognition and Temporal Lobe Abnormalities Associated with the Genetic Vulnerability for Schizophrenia: A Structural and Functional Neuroimaging Family Study	**$45,000.00**
Goghari, Vina	Department of Psychology	NSERC	Discovery Grants	NSERC Grant Transfer from Calgary	**$69,071.83**
Goldman, Marlene	Department of English	SSHRC	Insight Grant	Forgotten: Cultural Discourses of Age-Related Dementia and Alzheimer's Disease	**$27,911.00**
Goldman, Marlene	Department of English	SSHRC	Operating Grant	Piano Lessons - Film Production	**$700.00**
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	SSHRC	Insight Grant	Subway Systems and Urban Air Pollution	**$17,997.00**
Gough, William	Department of Physical & Environmental Sciences	Aboriginal Affairs and Northern Development Canada	Arctic Environmental Strategy Contaminants Program	The State of Canadian Winter Roads South of the 60th Parallel: Current Conditions, Adaptive Opportunities and Projected Season Length in a Changing Climate	**$20,825.00**
Gough, William	Department of Physical & Environmental Sciences	MITACS	MITACS-Elevate (PDF)	Towards the Development of a Bayesian Prognostic Tool of Air Pollution in Ontario	**$55,000.00**
Gough, William	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Climate Change Impacts in the Hudson Bay Region	**$21,800.00**
Gough, William	Department of Physical & Environmental Sciences	NCE: ArcticNet	Operating Grant	Community Vulnerability, Resilience and Adaptation to Climate Change in the Canadian Arctic	**$12,000.00**
Grewal, Anup	Department of Historical and Cultural Studies	SSHRC	Operating Grant	Rewriting Femininity and Women's Experience: A Revolutionary Women's Culture in China, 1926-1949	**$1,594.16**
Hachimi, Atiqa	Department of Historical and Cultural Studies	SSHRC	Operating Grant	Preliminary Research and Data Collection in Morocco on Verna Cularization and the Commodification of Language in a Global Arab World, June 20-August 20, 2016	**$829.74**
Hansen, Samantha	Department of Management	SSHRC	Operating Grant	Temporal Focus on Perceptions of PC Breach	**$2,273.38**
Harrison, Rene	Department of Biological Sciences	CIHR	Open Operating	Subversion of Host Epithelial Cell Processes by Chlamydia Infection	**$124,188.00**
Harrison, Rene	Department of Biological Sciences	NSERC	Research Tools & Instruments Grants	Electron Microscopy High-Resolution Preparatory Infrastructure	**$108,069.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Harrison, Rene	Department of Biological Sciences	NSERC	Discovery Grants	Microtubule Organizing Centres in Osteoclasts	**$32,000.00**
Haslhofer, Robert	Department of Computer & Mathematical Sciences	Connaught Fund	New Researcher Award	Mean Curvature Flow and Willmore Flow	**$10,000.00**
Haslhofer, Robert	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Mean Curvature Flow and Ricci Flow	**$27,000.00**
Helms-Park, Rena	Centre for French and Linguistics	SSHRC	University of Toronto Excellence Award - SSH	Multilingualism in the Canadian Context	**$6,000.00**
Hirst, Graeme	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Applied Computational Models of Discourse, Argument, and Text	**$54,000.00**
Hirst, Graeme	Department of Computer & Mathematical Sciences	University of Gothenburg	Subgrant, Riksbankens Jubileumsfond	Linguistic and Extra-Linguistic Parameters for Early Detection of Cognitive Impairment	**$37,222.92**
Hoffmann, Matthew	Department of Political Science	SSHRC	Insight Grant	Transformative Policy Pathways Toward Decarbonization	**$71,625.00**
Hsiung, Ping-Chun	Department of Sociology	SSHRC	Operating Grant	Politics of Rebuilding Chinese Sociology in the 1980s	**$899.29**
Hsiung, Ping-Chun	Department of Sociology	SSHRC	Insight Grant	The Politics of Investigative Research During China's Great Leap Forward (1958-62)	**$18,746.00**
Hubner, Karolina	Department of Philosophy	SSHRC	Insight Grant	Spinoza on Being	**$12,176.00**
Hunter, Mark	Department of Human Geography	SSHRC	Insight Grant	'Parasites': A Social Geography of Heroin, Estrangement, and Gendered Sociality in South Africa	**$18,368.00**
Hutcherson, Cendri	Department of Psychology	Connaught Fund	New Researcher Award	Tracking the Dynamics of Attention and Inhibition During Dietary Self-Control	**$34,250.00**
Hutcherson, Cendri	Department of Psychology	NSERC	Discovery Grants	Testing the Implications of a Dynamic, Neurally-Informed Computational Model of Valuation, Decision Making, and Self-Control	**$28,000.00**
Hutcherson, Cendri	Department of Psychology	SSHRC	Insight Grant	Why Are People Generous?: New Model-Based Approaches to Long-Standing Questions	**$19,944.00**
Hutcherson, Cendri	Department of Psychology	SSHRC	Operating Grant	Development of New Behavioral Measures to Investigate Sacred Moral Values and Taboo Tradeoffs	**$500.00**
Inbar, Yoel	Department of Psychology	SSHRC	Insight Grant	Moralized Attitudes Towards Genetically Engineered Food	**$16,790.00**
Inzlicht, Michael	Department of Psychology	American Psychological Association	Dissertation Research Award	APA Dissertation Award	**$1,356.90**
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**
Inzlicht, Michael	Department of Psychology	SSHRC	Insight Grant	What is Ego Depletion? Testing the Process Model of Self-Control Failure	**$61,099.00**
Inzlicht, Michael	Department of Psychology	SSHRC	Insight Development Grant	Predicting Population-Level Self-Control from Facebook: Lessons About Self-Control from Big Data	**$28,500.00**
Isaac, Marney	Department of Physical & Environmental Sciences	Agriculture and Agri-Food Canada/University of Guelph	AAFC Subgrant	Riparian Buffer Plantings: An Agroforestry Land-Use for Greenhouse Gas Mitigation Including Multiple Benefits to Canadian Agricultural Systems	**$6,912.00**
Isaac, Marney	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Biophysical Interactions in Agricultural Environments Across Edaphic Gradients	**$22,000.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Ito, Rutsuko	Department of Psychology	NSERC	Discovery Grants	Delineating Cortico-Limbic-Striatal Circuits in Reward and Punishment: Segregation and Integration	**$31,000.00**
Izmaylov, Artur	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	New Computational Approaches for Quantum Dynamics of Large Systems	**$35,000.00**
Izmaylov, Artur	Department of Physical & Environmental Sciences	NSERC	University of Toronto Excellence Award - NSE	Including Geometric Phase Effects in On-The-Fly Methods of Quantum Dynamics	**$4,875.00**
Jeffrey, Lisa	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Symplectic Geometry	**$27,000.00**
Kang, Yoonjung	Centre for French and Linguistics	SSHRC	Insight Grant	Bilingualism, Perceptual Drift, and Regularization of Loanwords	**$31,053.00**
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	**$39,150.00**
Kerman, Kagan	Department of Physical & Environmental Sciences	CFI	John R. Evans Leaders Fund	Tissue Culture Facility of Bioanalytical Sensors	**$48,078.00**
Kerman, Kagan	Department of Physical & Environmental Sciences	CFI	Infrastructure Operating Fund	Tissue Culture Facility of Bioanalytical Sensors	**$14,423.00**
Kerman, Kagan	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Bioelectrochemistry of Surfaces and Interfaces	**$45,000.00**
Kerman, Kagan	Department of Physical & Environmental Sciences	Ontario Ministry of Research, Innovation and Science	Research Infrastructure - CRC match	Tissue Culture Facility of Bioanalytical Sensors	**$48,078.00**
Kilroy-Marac, Katie	Department of Anthropology	SSHRC	Operating Grant	La psychiatrie au Sénégal, passé, présent, avenir - Conference/ workshop at the Fann Psychiatric Clinic	**$1,889.67**
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**
Klenk, Nicole	Department of Physical & Environmental Sciences	SSHRC	Operating Grant	Environmental Studies Summer 2016	**$1,297.76**
Klenk, Nicole	Department of Political Science	SSHRC	Operating Grant	Harnessing Local Knowledge: How Best to Adapt to Climate Change	**$1,000.00**
Kohn, Margaret	Department of Political Science	SSHRC	Insight Grant	Spaces of Civil Disobedience: From Sanctuary to Occupy	**$27,660.00**
Kohn, Margaret	Department of Political Science	SSHRC	University of Toronto Excellence Award - SSHRC	Solidarity and Social Rights	**$6,000.00**
Koudas, Nick	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Efficient Query Processing and Optimization for Big Data Workloads	**$60,000.00**
Kraatz, Heinz-Bernhard	Department of Physical & Environmental Sciences	CFI/Queen's University	Infrastructure Operating Fund	A Molecular Approach to Surface Functionalization: From Automotive to Biomedical Applications	**$37,653.00**
Kraatz, Heinz-Bernhard	Department of Physical & Environmental Sciences	CFI/Queen's University	Innovation Fund	A Molecular Approach to Surface Functionalization: From Automotive to Biomedical Applications	**$251,021.00**
Kraatz, Heinz-Bernhard	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Exploring the Chemistry of Ferrocene Bioconjugates	**$75,000.00**
Kraatz, Heinz-Bernhard	Department of Physical & Environmental Sciences	NSERC	Engage Grants (EG) Program	Development of an Electrochemical Sensor for Monitoring Drug Binding	**$25,000.00**
Kraatz, Heinz-Bernhard	Department of Physical & Environmental Sciences	Ontario Centres of Excellence	Voucher for Innovation and Productivity (VIP1)	Development of an Electrochemical Sensor for Monitoring Drug Binding	**$25,000.00**
Kronzucker, Herbert	Department of Biological Sciences	NSERC	Discovery Grants	Physiology and Toxicology of Ion Fluxes in Plant Roots	**$59,000.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Lee, Andy	Department of Psychology	NSERC	Discovery Grants	Investigating the Role of the Medial Temporal Role in Memory	**$56,159.00**
Lovejoy, Nathan	Department of Biological Sciences	Coypu Foundation	Operating grant	Aquatic Biodiversity Survey of the Southern Colombian Andes	**$65,898.63**
Lovejoy, Nathan	Department of Biological Sciences	NSERC	Discovery Grants	Phylogenetics, Biogeography, and Evolution of Fishes	**$44,000.00**
Lowman, Julian	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Planetary Mantle Dynamics	**$30,000.00**
Maglio, Sam	Department of Management	SSHRC	Insight Development Grant	The Strength and Resilience of Intuitive Attitudes	**$28,120.00**
Maglio, Sam	Department of Management	SSHRC	University of Toronto Excellence Award - SSHRC	The Strength and Resilience of Intuitive Attitudes	**$6,000.00**
Maglio, Sam	Department of Management	SSHRC	Operating Grant	Aversion and the Return Trip Effect	**$1,000.00**
Mandrak, Nicholas	Department of Biological Sciences	Fisheries & Oceans	Operating Grant	Developing a Freshwater Species at Risk Research Network in the Great Lakes-St. Lawrence River Basin	**$20,700.00**
Mandrak, Nicholas	Department of Biological Sciences	NSERC	Discovery Grants	Biodiversity, Biogeography, and Conservation of Freshwater Fishes	**$27,000.00**
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**
Mandrak, Nicholas	Department of Biological Sciences	Ontario Ministry of Natural Resources and Forestry	Operating Grant	Science in Support of Protocol Development for Detection and Monitoring of Wetland Fishes at Risk	**$15,000.00**
Mandrak, Nicholas	Department of Biological Sciences	Ontario Ministry of Natural Resources and Forestry	Operating Grant	Application of Underwater Cameras to Non-Invasively Detect and Monitor Redside Dace (Clinostomus Elongatus) Populations	**$28,890.00**
Mandrak, Nicholas	Department of Biological Sciences	Ontario Ministry of Natural Resources and Forestry	Operating Grant	Inventory and Habitat Modelling of Pugnose Shiner in the Lake St. Clair Watershed	**$40,530.00**
Mason, Andrew	Department of Biological Sciences	NSERC	Discovery Grants	Sensory Processing, Perception and Communication in Simple Nervous Systems	**$40,000.00**
Maurice, Alice	Department of English	SSHRC	Insight Grant	Making Faces: Makeup, Identity, and the Changing Face of American Cinema	**$15,238.00**
McCarthy, Julie	Department of Management	SSHRC	Insight Grant	Personnel Selection Through the Lens of Job Applicants: Leveraging Test Reactions	**$29,117.00**
McElheran, Kristina	Department of Management	SSHRC	Insight Grant	Data and Data-Driven Decision Making in the Digital Age: Economic, Organizational, and Individual Implications	**$17,070.00**
McGowan, Patrick	Department of Biological Sciences	NSERC	Discovery Grants	Perinatal Stress and Brain Fucion	**$31,000.00**
McGowan, Patrick	Department of Biological Sciences	U.S. Department of Defense	Gulf War Illness Res Program-Investigator-Initiate	Epigenetic Mediation of Endocrine and Immune Response in an Animal Model of Gulf War Illness	**$198,523.98**
McLeod, Kenneth	Department of Arts, Culture & Media	SSHRC	Insight Grant	Driving Identity: Popular Music and Automobile Culture	**$16,578.00**
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**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Molloy, Michael	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Probabilistic Graph Theory and Random Constraint Satisfaction Problems	**$62,000.00**
Molnar, Peter	Department of Biological Sciences	CFI	John R. Evans Leaders Fund	Laboratory of Quantitative Global Change Ecology	**$100,000.00**
Molnar, Peter	Department of Biological Sciences	CFI	Infrastructure Operating Fund	Laboratory of Quantitative Global Change Ecology	**$30,000.00**
Molnar, Peter	Department of Biological Sciences	NSERC	Discovery Grants	Bioenergetic Approaches to Understanding and Forecasting Ecological and Epidemiological Impacts of Climate Change	**$33,000.00**
Molnar, Peter	Department of Biological Sciences	NCE: ArcticNet	Operating Grant	Monitoring and Managing Muskox Health for Food Security and Ecosystem and Socio-Economic Resilience: Integrating Traditional, Local, and Scientific Knowledge	**$6,600.00**
Molnar, Peter	Department of Biological Sciences	Ontario Ministry of Research, Innovation and Science	Small Infrastructure Fund - JELF	Laboratory of Quantitative Global Change Ecology	**$100,000.00**
Monahan, Philip J.	Centre for French and Linguistics	SSHRC	Insight Development Grant	Exploring Speech Sound Representations: Features and Categories in Monolingual and Bilingual Speakers	**$35,198.00**
Mullen, Ann	Department of Sociology	SSHRC	Operating Grant	Artists and Art Galleries	**$1,740.27**
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	**$111,664.86**
Nefsky, Julia	Department of Philosophy	SSHRC	Insight Grant	Individual Morality and Collective Impact	**$6,130.00**
Nestor, Adrian	Department of Psychology	NSERC	Discovery Accelerator Supplements	A Neurocomputational Investigation of Human Face Processing	**$40,000.00**
Nestor, Adrian	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**
Norrlof, Carla	Department of Political Science	SSHRC	Operating Grant	Economics and Security in Hegemonic Order Studies	**$1,191.36**
Pilcher, Jeffrey	Department of Historical and Cultural Studies	SSHRC	Insight Grant	Tasting the Global City: Multicultural Histories of Toronto's Cuisines	**$13,569.00**
Pilcher, Jeffrey	Department of Historical and Cultural Studies	SSHRC	Student Award	Tasting the Global City: Multicultural Histories of Toronto's Cuisines	**$829.73**
Pollack, Gerald	Department of Biological Sciences	NSERC	Discovery Grants	Neuroethology of Reproduction and Acoustic Communication in Crickets	**$40,000.00**
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	Human Frontier Science Program Organization	Young Investigators Grants	An Integrated Multi-Level Investigation of Neural Codes in Sensory Processing	**$154,983.19**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Richards, Blake	Department of Biological Sciences	Mightex Systems	Research Contract	Single-Neuron Resolution Optical Control with a Digital Multimirror Device	**$6,452.00**
Richards, Blake	Department of Biological Sciences	NSERC	Discovery Grants	Uncovering the Neurobiology of Combined Supervised and Unsupervised Learning	**$29,000.00**
Richards, Blake	Department of Biological Sciences	NSERC	NSERC Engage Plus	Single-Neuron Resolution Optical Control with a Digital Multimirror Device	**$3,833.00**
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**
Roy, Daniel	Department of Computer & Mathematical Sciences	Amazon Develop Center Germany GmbH	Research Contract	Amazon Postdoc	**$61,250.03**
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	**$176,332.00**
Roy, Daniel	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Probabilistic Programming for Machine Learning	**$29,000.00**
Roy, Daniel	Department of Computer & Mathematical Sciences	The Royal Society	Newton International Fellowship	Newton Fellowship Alumni Fund	**$4,468.38**
Ruocco, Anthony C.	Department of Psychology	CIHR	New Investigator	Isolating Neurocognitive Intermediate Phenotypes in Borderline Personality Disorder	**$60,000.00**
Ruocco, Anthony C.	Department of Psychology	CIHR	Doctoral Research Awards	Katherine Gardhouse - Doctoral Award - Effects of Dietary Intervention on Inflammation and the Gut-Microbiome in Major Depressive Disorder	**$35,000.00**
Saljoughi, Sara	Department of English	Connaught Fund	New Researcher Award	Burning Visions: The Counter-Cinema of the Iranian New Wave	**$10,000.00**
Schertzer, Robert	Department of Political Science	Connaught Fund	New Researcher Award	The Politics of National Identity and Diversity	**$10,000.00**
Schertzer, Robert	Department of Political Science	SSHRC	Insight Development Grant	Beyond Counting: Describing and Explaining Ethno-National Representation in Political Institutions Across the Globe	**$19,100.00**
Schmuckler, Mark	Department of Psychology	NSERC	Discovery Grants	Perceptual Motor Coupling in Obvious and Non-Obvious Domains / Tonaility and Melody in Music Cognition	**$24,000.00**
Schroeder, Bianca	Department of Computer & Mathematical Sciences	NSERC	Discovery Grants	Reliable and Energy-Efficient Data Enters	**$36,000.00**
Sedivy, Sonia	Department of Philosophy	SSHRC	Insight Development Grant	Art, Perception and History	**$7,000.00**
Segal, Zindel	Department of Psychology	CIHR	Open Operating	Neural Markers of Depressive Relapse Vulnerability and Their Modification	**$37,371.00**
Segal, Zindel	Department of Psychology	National Institutes of Health (US)	Operating Grant-R01	Reducing Residual Depressive Symptoms with Web-Based Mindful Mood Balance	**$791,658.48**
Silcox, Mary	Department of Anthropology	NSERC	Discovery Grants	Understanding the Evolution of the Earliest Primates	**$28,000.00**
Silver, Daniel	Department of Sociology	SSHRC/Western University	SSHRC IDG subgrant	Place and Politics: Neighbourhood Effects and Political Behaviour in Canadian Cities	**$3,089.00**
Simpson, Andre	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Development of Flow-Based & Magic Angle Spinning In-Vivo NMR to Understand Environmental Stress	**$68,000.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Simpson, Andre	Department of Physical & Environmental Sciences	NSERC	Strategic Grants	A Digital Microfluidic-Microcoil Nmr Discovery Platform to Elucidate, Monitor and Understand Cumulative Environmental Stress	**$190,000.00**
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	NSERC	Discovery Grants	Molecular Biogeochemistry of Soil Organic Matter with Environmental Change	**$50,000.00**
Simpson, Myrna	Department of Physical & Environmental Sciences	NCE: ArcticNet	Operating Grant	Water Security and Quality in a Changing Arctic	**$13,000.00**
Simpson, Myrna	Department of Physical & Environmental Sciences	NSERC/University of Guelph	NSERC Strategic Program Subgrant	Understanding the Mechanisms for Soil Ecosystem Services from 'Perennialized' Annual Cropping Systems	**$24,000.00**
Skogstad, Grace	Department of Political Science	NCE: BioFuelNet	Operating Grant	Pathways to Reducing Policy Uncertainty in Sustainable Biofuels Governance	**$51,590.00**
Skogstad, Grace	Department of Political Science	NCE: BioFuelNet	Operating Grant	Biofuelnet Project Leader	**$20,000.00**
Skogstad, Grace	Department of Political Science	NCE: BioFuelNet	Operating Grant	BFN Policy Brief Series & What Role for Advanced Biofuels in Canada: A Q&A of Policy Options and Impacts	**$15,500.00**
Sorensen, Andre	Department of Human Geography	SSHRC	Insight Grant	Urbanization, Planning and Developmental States in Comparative Historical Perspective	**$7,054.00**
Tanner, Julian	Department of Sociology	SSHRC	Insight Grant	Youth and Guns in Toronto	**$56,175.00**
Teichroeb, Julie	Department of Anthropology	Connaught Fund	New Researcher Award	The Influence of Resource Quality and Usurpability on Vervet Monkey Foraging Decisions	**$9,978.00**
Teichroeb, Julie	Department of Anthropology	NSERC	Discovery Grants	Understanding the Drivers of Individual and Group-Level Movements in Gregarious Species	**$28,000.00**
Terebiznik, Mauricio	Department of Biological Sciences	MITACS	Accelerate Ontario	Development of Nanobodies Against Salmonella Enterica and Campylobacter Jejuni	**$106,666.67**
Terebiznik, Mauricio	Department of Biological Sciences	NSERC	Discovery Grants	Phagocytosis Filamentous Largets	**$36,000.00**
Thiele, Tod	Department of Biological Sciences	NSERC	Discovery Grants	Dissecting the Structure and Function of Vertebrate Sensorimotor Neural Circuits Using Larval Zebrafish	**$36,000.00**
Treanor, Bebhinn	Department of Biological Sciences	CFI	John R. Evans Leaders Fund	Spatially-Resolved Biochemistry	**$50,000.00**
Treanor, Bebhinn	Department of Biological Sciences	CFI	Infrastructure Operating Fund	Spatially-Resolved Biochemistry	**$15,000.00**
Treanor, Bebhinn	Department of Biological Sciences	CIHR	Open Operating	Molecular Mechanisms Regulating B Cell Signalling and Activation	**$120,896.00**
Treanor, Bebhinn	Department of Biological Sciences	Hospital for Sick Children	Subgrant, CIHR	Immuno-Modulatory Hiv-1 Nanoparticles as a Novel Vaccine Platform	**$122,108.00**
Treanor, Bebhinn	Department of Biological Sciences	NSERC	Discovery Grants	The Role of Glycan-Gatectin Interactions in Regulating B Cell Signalling and Activations	**$33,000.00**
Treanor, Bebhinn	Department of Biological Sciences	Ontario Ministry of Research, Innovation and Science	Research Infrastructure - CRC match	Spatially-Resolved Biochemistry	**$50,000.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
Triadafilopoulos, Phil	Department of Political Science	SSHRC	Operating Grant	Relations Between Canada and Greece: 1945-1975, Research trip, July 2016	**$800.00**
Trougakos, John	Department of Management	SSHRC	Insight Grant	Why Are We Not Taking Our Breaks? Examining Predictors of Employee Work Break Choices	**$37,250.00**
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	Catalyst Grant	Indigenous Approaches to Wellness: Land-Centred Interventions in Subarctic Canada	**$149,760.00**
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 Exposure, and the Identification of Potential Health Risks	**$16,774.78**
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**
Tsuji, Leonard	Department of Anthropology	SSHRC	Partnership Development Grant	Decreasing the Vulnerability of Subarctic and Arctic Aboriginal People to Environmental Change Through an Innovative Decision-Support Tool	**$83,406.00**
Uliaszek, Amanda	Department of Psychology	SSHRC	Insight Development Grant	Bridging Development and Disturbance: A Unified, Transtheoretical Approach to the Study of Identity	**$27,095.00**
Uliaszek, Amanda	Department of Psychology	SSHRC	Operating Grant	Bridging Development and Disturbance: A Unified, Transtheoretical Approach to the Study of Identity	**$1,673.00**
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	NSERC	Research Tools & Instruments Grants	Platforms for Plant Growth, Development and Stress Biology Research	**$131,596.00**
Vanlerberghe, Greg	Department of Biological Sciences	Ontario Ministry of Natural Resources and Forestry	Grant Operating	Conservation Genetics of the Endangered Queensnake (Regina Septemvittata) in Ontario	**$25,121.80**
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	Arctic Environmental Strategy Contaminants Program	Quantifying the Effect of Transient and Permanent Dietary Transitions in the North on Human Exposure to Persistent Organic Pollutants and Mercury	**$33,925.00**
Wania, Frank	Department of Physical & Environmental Sciences	Environment Canada	Research	New Approaches for Predicting and Visualizing Gas/Particle Partitioning of Polycyclic Aromatic Compounds	**$25,000.00**

FACULTY	DEPARTMENT	SPONSOR	PROGRAM	PROJECT TITLE	AWARDED
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	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**
Way, Lucan	Department of Political Science	SSHRC	Connection Grant	1917: Culture, Violence and Political Change in the 20th Century, Conference at the University of Toronto	**$18,113.00**
Weir, Jason	Department of Biological Sciences	NSERC	Discovery Accelerator Supplements	The Biogeographic Drivers and Genomic Architecture of Speciation in Amazonian Birds	**$40,000.00**
Weir, Jason	Department of Biological Sciences	NSERC	Discovery Grants	The Biogeographic Drivers and Genomic Architecture of Speciation in Amazonian Birds	**$37,000.00**
Welch, Kenneth	Department of Biological Sciences	Human Frontier Science Program Organization	Operating Grant	Optimization of Metabolic Flux in the Hummingbird: From Enzymes to Ecology	**$143,243.34**
Welch, Kenneth	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**
Welch, Kenneth	Department of Biological Sciences	NSERC	Research Tools & Instruments Grants	Real-Time, Low-Cost, Field-Ready Stable Isotope Analyzer for the Study of Carbon Flux Through the Organism and Ecosystem	**$150,000.00**
Wells, Mathew	Department of Physical & Environmental Sciences	Environment Canada	Great Lakes University Research Fund	Dissolved Oxygen Dynamics in Hamilton Harbour	**$71,999.99**
Wells, Mathew	Department of Physical & Environmental Sciences	Environment Canada	Grant Operating	Evaluating the Linkage Between Circulation and Spatial Water Quality Patterns in the Nearshore of South-Eastern Georgian Bay	**$88,150.98**
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	**$40,000.00**
Wells, Mathew	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Transport and Mixing of Particles in Stratified Environmental Flows	**$48,000.00**
Wilson, Jessica	Department of Philosophy	SSHRC	Insight Grant	How Metaphysical Dependence Works: A Case Study in Metaphysical Methodology	**$11,612.00**
Zakzanis, Konstantine	Department of Psychology	MITACS	Accelerate Ontario	On the Nature of Neurocogntive Dysfunction in Depressive Disorders I Cognitive Impairment Secondary to Depressive Symtomology and Its Relationship with Functional Impairment [S.Dhillon]	**$75,000.00**
Zhang, Xiaoan	Department of Physical & Environmental Sciences	NSERC	Discovery Grants	Next Generation Molecular Probes for Magnetic Resonance Sensing and Imaging: Design, Synthesis, Evaluation and Application	**$30,000.00**
Zhao, Rongmin	Department of Biological Sciences	NSERC	Discovery Grants	Role of Molecular Chaperone HSP90C in Regulating Arabidopsis Photosynthesis	**$26,000.00**

PUBLICATIONS

SELECT PUBLISHED WORKS, 2016-17

This list includes publications by U of T Scarborough research-stream faculty from January 2016 to June 2017.
This is a non-comprehensive list.

Journal Articles (473)

Abért, M., Glasner, Y., & **Virág, B.** (2016). The measurable kesten theorem. *Annals of Probability, 44*(3), 1601–1646.

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.

Ahmad, A. (2016). Going global: Islamist competition in contemporary civil wars. *Security Studies, 25*(2), 353–384.

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