VPRI Annual Update 2018

Dr. Robert Haché, Vice-President Research & Innovation
Canada Research Chairs 2018

**Tier 1**

- **Kate Tilleczek**
  Faculty of Education
  CRC in Young Lives, Education and Global

- **Michael Brown**
  Lassonde School of Engineering
  CRC in Computer Vision

- **John Tsotsos**
  Lassonde School of Engineering
  CRC in Computational Vision

- **Gordon Flett**
  Faculty of Health
  CRC in Personality and Health

- **Ethel Tungohan**
  Faculty of Liberal Arts & Professional Studies
  CRC in Canadian Migration Policy, Impacts and Activism

- **Georg Zoidl**
  Faculty of Health & Faculty of Science
  CRC in Molecular and Cellular Neuroscience

- **Regina Rini**
  Faculty of Liberal Arts & Professional Studies
  CRC in Philosophy of Moral and Social Cognition

- **Steven Connor**
  Faculty of Science
  CRC in Neurophysiology

- **Isaac Smith**
  Lassonde School of Engineering
  CRC in Planetary Science
York Research Chairs

**Tier I**

- James Elder
  Human and Computer Vision

- Les Jacobs
  Human Rights and Access to Justice

- Lauren Sergio
  Brain Health and Skilled Performance

- Richard Wildes
  Computation Vision

- Dan Zhang
  Advanced Robotics and Mechatronics

**Tier II**

- Huaiping Zhu
  Applied Mathematics

- Jacob Beck
  Philosophy of Visual Perception

- Dayna Scott
  Environmental Law and Justice in the Green Economy

- Jonathan Weiss
  Autism and Neurodevelopmental Disability

- Derek Wilson
  Molecular Mechanisms of Disease
Recognizing Leadership in Research 2018

President’s Research Excellence Award 2018

Doug Crawford
Faculty of Health
Distinguished Research Professor in Neuroscience and Canada Research Chair in Visual-Motor Neuroscience

President’s Emerging Research Leadership Award 2018

Sapna Sharma
Faculty of Science
York Research Chair in Global Change Biology
Other Notable Awards 2018

SSHRC Impact Award (Partnership Category)

SSHRC Impact Award

Carla Lipsig-Mummé
Faculty of LA&PS
Professor of Work and Labour Studies
PI: “Adapting Canadian Work and Workplaces to Respond to Climate Change” project

NSERC/ Sanofi Industrial Research Chair in Vaccine Mathematics, Modelling and Manufacturing

Jianhong Wu
Department of Mathematics & Statistics, Faculty of Science

Humboldt Research Award from the Alexander von Humboldt Foundation

Matthias Kipping
Richard E. Waugh Chair in Business History
Schulich School of Business

2018 Killam Research Fellowship by the Canada Council for the Arts

Deanne Williams
Department of English, Faculty of LA&PS
Canada Research Chairs

Achieving York’s Canada Research Chairs Equity, Diversity and Inclusion (EDI) Action Plan targets

- Individual meetings with all Search Committees
- New checklist has been developed to help Search Committees
- Office of VPRI to provide recruitment process support
- Requesting current CRCs to self-identify if haven’t already done so
# Canada Research Chairs

<table>
<thead>
<tr>
<th>FDG Category</th>
<th>Occupancy - Current CRCs</th>
<th>Occupancy - Pending CRCs</th>
<th>Required Target with 39 CRCs filled</th>
<th>Gap</th>
</tr>
</thead>
<tbody>
<tr>
<td>Women</td>
<td>7</td>
<td>8</td>
<td>14 (25%)</td>
<td>6</td>
</tr>
<tr>
<td>Visible minorities</td>
<td>4</td>
<td>4</td>
<td>6 (15%)</td>
<td>2</td>
</tr>
<tr>
<td>Persons with disabilities</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Aboriginal Peoples</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A (less than 1 Chair)</td>
<td>N/A</td>
</tr>
</tbody>
</table>

York has received 4 new chairs, increasing our total allocation to **39 chairs**

There are currently:

- 27 filled CRCs
- 4 nominations and 1 renewal pending
- 9 CRC searches underway
# York Research Chairs Statistics

## FDG Category

<table>
<thead>
<tr>
<th>Category</th>
<th>Active Chairs</th>
<th>Percentage</th>
<th>Number of Chairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Women</td>
<td>35%</td>
<td>(11 Chairs)</td>
<td></td>
</tr>
<tr>
<td>Visible minorities</td>
<td>25%</td>
<td>(8 Chairs)</td>
<td></td>
</tr>
</tbody>
</table>

## Affiliation

<table>
<thead>
<tr>
<th>Affiliation</th>
<th>Chairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Science and Humanities</td>
<td>11</td>
</tr>
<tr>
<td>Natural Sciences/ Health/ Engineering</td>
<td>21</td>
</tr>
<tr>
<td>Centrally Supported</td>
<td>20</td>
</tr>
<tr>
<td>Faculty-Based</td>
<td>5</td>
</tr>
<tr>
<td>VISTA Funded</td>
<td>7</td>
</tr>
</tbody>
</table>
Research Performance:
Building Capacity for Research Success

- Awarded 2 Partnership grant = $5M – Tamara Daly, Faculty of Health & Janine Marchessault, AMPD
- 26 Insight grants = $4.2M
- 20 Insight Development grants = $1.1M
- 3 Special Call: Indigenous Research Capacity & Reconciliation
- 7 Early Researcher Awards

- 53 Discovery grants = $7.1M, (70% success rate)
- 1 Collaborative Research & Training Experience Program = $1.6M
- 14 awards in the John R. Evans Leaders Fund (JELF)
Research Productivity – Number of Publications 2017
Source: SciVal Data

Ranking out of 49 Canadian Universities
York’s Sponsored Research Income

Ranked #21 in Canada 2014-2017

* 2018 Research Infosource
## National Rankings 2018 RE$EARCH Infosource

<table>
<thead>
<tr>
<th>Rank</th>
<th>University</th>
<th>Sponsored Research Income FY2017 $000</th>
<th>Sponsored Research Income FY2016 $000</th>
<th>Research Intensity $ per Faculty $000</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>Dalhousie</td>
<td>$150,038</td>
<td>$135,958</td>
<td>$130.2</td>
</tr>
<tr>
<td>16</td>
<td>Guelph</td>
<td>$140,294</td>
<td>$148,911</td>
<td>$184.1</td>
</tr>
<tr>
<td>17</td>
<td>Simon Fraser</td>
<td>$138,964</td>
<td>$109,916</td>
<td>$156.3</td>
</tr>
<tr>
<td>18</td>
<td>Sherbrooke</td>
<td>$132,455</td>
<td>$133,180</td>
<td>$115.6</td>
</tr>
<tr>
<td>19</td>
<td>Victoria</td>
<td>$114,922</td>
<td>$99,589</td>
<td>$170.0</td>
</tr>
<tr>
<td>20</td>
<td>Memorial</td>
<td>$111,778</td>
<td>$91,178</td>
<td>$111.3</td>
</tr>
<tr>
<td>21</td>
<td>York</td>
<td>$96,030</td>
<td>$66,566</td>
<td>$73.0</td>
</tr>
<tr>
<td>22</td>
<td>UQAM</td>
<td>$67,790</td>
<td>$63,935</td>
<td>$61.1</td>
</tr>
<tr>
<td>23</td>
<td>INRS</td>
<td>$64,434</td>
<td>$55,748</td>
<td>$426.7</td>
</tr>
<tr>
<td>24</td>
<td>Carleton</td>
<td>$54,369</td>
<td>$58,690</td>
<td>$67.9</td>
</tr>
<tr>
<td>25</td>
<td>Concordia</td>
<td>$53,099</td>
<td>$50,810</td>
<td>$65.4</td>
</tr>
<tr>
<td>26</td>
<td>New Brunswick</td>
<td>$48,206</td>
<td>$38,128</td>
<td>$105.3</td>
</tr>
<tr>
<td>27</td>
<td>Ryerson</td>
<td>$47,832</td>
<td>$47,130</td>
<td>$61.5</td>
</tr>
<tr>
<td>28</td>
<td>Laurentian</td>
<td>$32,068</td>
<td>$23,444</td>
<td>$79.2</td>
</tr>
</tbody>
</table>

*S Sponsored research income: includes all funds to support research received in the form of a grant, contribution or contract from all sources external to the institution.*
York Research Grant
Funding by Source

Fund 500 revenues by funder, April 1, 2017 to March 31, 2018
York Tri-Council Research Funding
‘Federal Grants’ Funding

<table>
<thead>
<tr>
<th>Year</th>
<th>SSHRC</th>
<th>CIHR</th>
<th>NSERC</th>
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<tbody>
<tr>
<td>2013-14</td>
<td>$18,999,000</td>
<td>$4,952,000</td>
<td>$9,822,000</td>
</tr>
<tr>
<td>2014-15</td>
<td>$15,647,000</td>
<td>$4,252,000</td>
<td>$12,584,000</td>
</tr>
<tr>
<td>2015-16</td>
<td>$15,821,888</td>
<td>$4,820,227</td>
<td>$11,280,424</td>
</tr>
<tr>
<td>2016-17</td>
<td>$14,637,534</td>
<td>$5,793,773</td>
<td>$15,263,109</td>
</tr>
<tr>
<td>2017-18</td>
<td>$14,105,055</td>
<td>$9,025,416</td>
<td>$14,391,370</td>
</tr>
</tbody>
</table>

Total values for the three agencies under sponsored research are the amount which Research Accounting provides for fund 500 revenue plus the SSHRC and NSERC scholarships in fund 600.
Other Expressions of York’s Scholarly & Creative Leadership

Creative Activity (eg:)

- New research in visual media archives
- Advancements in immersive digital storytelling
- Interactive and interdisciplinary art installation “Shadowpox” gets international attention
- Innovative collaborations dedicated to re-engaging Indigenous Canadian voices in visual art and performance
- Raising awareness of climate change with a series of worldwide readings and performances
- Department of Theatre and Winters College turn 50 this year

-York continues to be a leader in disciplines where books are the primary form of scholarship
Mass Media- Online Mentions- York Research
Source: SciVal

York U is #2 in Ontario

*UofT removed from graph
York U is #2 in Ontario

Media Exposure Print Mentions - York Research
Source: SciVal

*UofT removed from graph
Innovation York Activity

2017/18

Research Agreements

~693 agreements reviewed annually with a value of $33M

Industry Liaison

245 industry interactions with ~$47.5M in cash & in-kind contributions

Commercialization

26 active commercialization projects with 10 startup companies

Entrepreneurship

3228 entrepreneurs engaged and 71 new startups supported

Knowledge Mobilization

26 collaborative opportunities with research funding contributions of $3.8M
Indigenous Friends Tackles Isolation Amongst First Nations, Métis and Inuit with Social Network App

Combining his own experiences and a master's degree in information technology and native studies, Alejandro Mayoral-Banos has pulled together stakeholders to design an Indigenous social network app.

Indigenous Friends, a social network application to connect First Nations, Métis and Inuit youth with available community resources, support and information, as well as creating Indigenous networks between Indigenous youth.
LaunchYU Accelerator

The LaunchYU Accelerator is a 4-month program designed to support entrepreneurs as they build, launch and scale their ventures. In year 4 received 108 applications for 20 spots.
LaunchYU Accelerator

Graduation of the 20 ventures at September 27th pitching event at the office of Aird & Berlis LLP. The top 3 ventures were announced and awarded $5,000 each.

Blade Filters Inc. creates activated, indoor, carbon air filters for odour removal and filtration purposes. Blade Filters is the only company that has encompassed a replaceable carbon cartridge in units.

RedPine allows artists to crowdfund their concerts. Crowdfunding eliminates the risk for both the venue and the artist - venues only approve shows that will be profitable, while artists play in front of a guaranteed crowd.

Ocutherapy is a virtual reality rehabilitation assistant that bridges game and therapy, Ocutherapy offers smart solutions to adapt to the unique needs of each person recovering from injury.
Innovation York Update

Approaching Capacity

YSpace in 2018:
• 21 start-up ventures supported
• 82 events held
• Over 45 entrepreneurial members
• 10 Entrepreneurs-in-residence program
Coming Attractions

• Artificial Intelligence and Society Task Force formed
  – Examining options for building and featuring York’s Research strengths and curricular offerings in AI

• Electronic Curriculum Vitae (ECV) exercise
  – Task Force developed to evaluate ECV management software systems for implementation

• Research Commons
  – Developing a formal research grant development and mentorship system at York focused initially on new faculty to prepare them for research granting success

• Advanced Manufacturing Supercluster- York is the academic lead for the microelectronic component of the project

• Canada Foundation for Innovation-Infrastructure Fund- anticipated launch in early 2019, internal development of proposals underway
Comments, Questions, Discussion