

UNIVERSITY OF TORONTO UNIVERSITY-WIDE IMPACT PRESENTATION

INTRO:	2
SECTION 1: GLOBAL FOOTPRINT	3
SECTION 2: INNOVATION AND IMPACT	16
SECTION 3: EXCELLENCE AND LEADERSHIP IN SOCIETY	28



BOUNDLESS



UNIVERSITY OF
TORONTO

GLOBAL FOOTPRINT
INNOVATION AND IMPACT
EXCELLENCE AND LEADERSHIP
IN SOCIETY

CONTENT CURRENT AS OF MAY 2017

BEGINNING OF PRESENTATION

[Good afternoon]. My name is [X], and I serve as [X] at the University of Toronto. Thank you for joining us [today].

[Today] I would like to take you through a presentation that speaks to the crucial role that U of T is honoured to play in our world.

I'm going to cover three aspects:

- U of T's Global Footprint
- U of T's Innovation and Impact
- U of T's Excellence and Leadership in Society

SECTION 1
GLOBAL FOOTPRINT



We are immensely proud of our worldwide alumni community. More than 557,000 U of T alumni live, work and contribute to civil society in more than 190 countries and territories.

Few universities in the world can rival the cultural diversity of our student population. For example, U of T's first-year, full-time, 2015 undergraduate class comes from high-schools all over the world – in more than 110 countries. Moreover, our entire student body of more than 88,000 students comes from over 160 countries and regions!

ADDITIONAL NOTES FOR SPEAKER:

First-year students: More than 16,400 students hail from nearly 1,100 municipalities around the world.

All students: 88,766 students hail from 168 countries and regions.

On the research front, the University of Toronto's faculty collaborate with scholars at institutions around the world. This map shows all collaborations that resulted in 100 or more publications over a five-year period – 675 in total. Only Harvard has a more extensive network of global collaborators.

ADDITIONAL NOTES FOR SPEAKER:

The lines on the map represents a set of collaborations between scholars at the University of Toronto and their colleagues at institutions around the world. Only collaborations that occurred between 2010 and 2015 that resulted in 100 or more publications are shown. (University systems are excluded; their individual constituent members are included.)

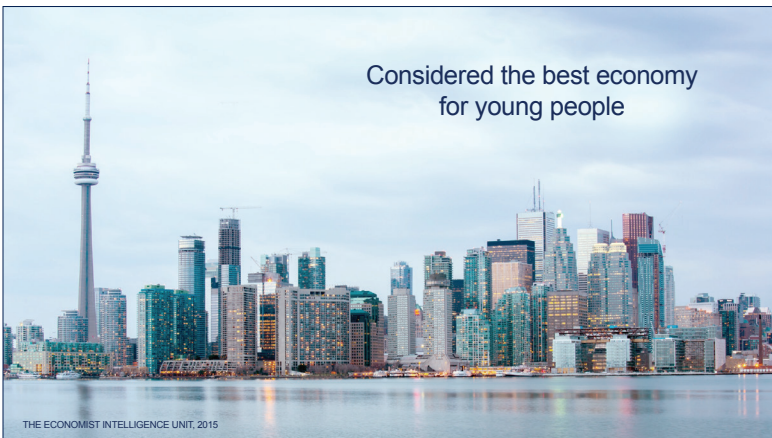
At U of T, students can take part in opportunities to work and study abroad. Our Centre for International Experience offers exchange programs with more than 150 partner institutions in 39 countries, including Australia, Brazil, China, Germany, India, Israel and Kenya. Studying abroad means acquiring skills related to their discipline of study, learning new languages, and deepening their understanding of other cultures and global issues, all critical to their future in an increasingly interconnected world.

U of T's global footprint owes a lot to the city in which it's located. Toronto is:

One of the world's most liveable cities



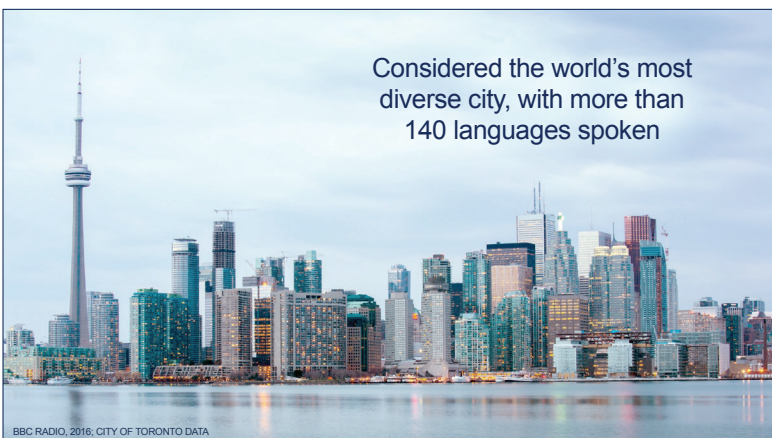
Considered the best economy
for young people



North America's 4th
largest urban region



Considered the world's most
diverse city, with more than
140 languages spoken



- One of the world's most liveable cities
- Considered the best economy for young people
- North America's fourth largest urban region
- And considered the world's most diverse city, with more than 140 languages spoken



3rd largest ICT cluster
in North America

GOVERNMENT OF CANADA DATA



3rd largest design industry
in North America

CITY OF TORONTO DATA



2nd largest financial services
hub in North America

CITY OF TORONTO DATA



Top 10 in US & Canada
Green City Index

THE ECONOMIST INTELLIGENCE UNIT, 2011

It is home to North America's:

- third largest information and communications technology cluster

**Note: text is not editable on animation slides.*

- third largest design industry

**Note: text is not editable on animation slides.*

- and second largest financial services hub, after New York

**Note: text is not editable on animation slides.*

It also ranks in the top 10 in the US & Canada Green City Index.

**Note: text is not editable on animation slides.*



3rd in the world
“to live and work in tech”

FAST COMPANY, 2016

According to industry watchers, it is also poised to become one of the leading technology startup hubs, thanks to its attractive combination of liveability and ease of doing business.

**Note: text is not editable on animation slides.*

With this stimulating environment to draw upon, it is no surprise that the University of Toronto is widely recognized as one of the world’s great institutions of higher learning.

As you can see, respected university rankings have placed U of T consistently among the world’s top research institutions over the past several years.

U of T’s position in
World University Rankings

	2012	2013	2014	2015	2016
National Taiwan University Ranking	7	8	4	3	4
US News Best Global Universities (2016)	-	-	14	16	21
Times Higher Education World University Rankings	21	20	20	19	22
Academic Ranking of World Universities	27	28	24	25	27
QS World University Ranking	19	17	20	34	32

Only 5 universities in the world
rank 37th or better in 37 subjects or more



The QS World University Rankings by Subject confirms one of U of T’s distinguishing strengths: our critical mass of top experts in a wide array of disciplines.

Only 5 universities in the world
rank 37th or better in 37 subjects or more

Cambridge, Stanford, UCLA, Oxford
and the University of Toronto



Only 5 universities in the world demonstrate this exceptional breadth and depth, by ranking thirty-seventh or better in thirty-seven subjects or more. These are: Cambridge, Stanford, UCLA, Oxford and the University of Toronto.



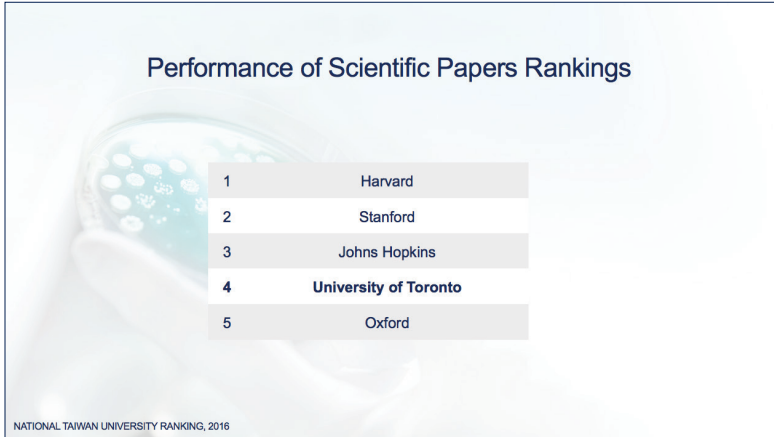
In another important measure, U of T is ranked second in the world for the number of publications and citations in all science fields.

Research Output Rankings

	CITATIONS	PUBLICATIONS
1	Harvard	Harvard
2	University of Toronto	University of Toronto
3	Johns Hopkins	Sao Paulo
4	MIT	University College London
5	Stanford	Johns Hopkins



The National Taiwan University Ranking, which ranks universities according to the performance of scientific papers, places U of T at 4th in the world.



With our nine hospital partners U of T forms a clinical medicine powerhouse that ranks among the top three in the world.

Thanks to this world-class environment, U of T graduates are highly employable. U of T ranks fourteenth for global employability, and sixth among public universities.

ADDITIONAL NOTES FOR SPEAKER:

The public universities that are ranked above U of T in the Times Higher Education global employability ranking (2016) are: Cambridge, Oxford, Technical University of Munich, University of Tokyo, and Hong Kong University of Science and Technology.

Public Universities: Global Employability Rankings

1	Cambridge
2	Oxford
3	Technical University of Munich
4	University of Tokyo
5	Hong Kong University of Science and Technology
6	University of Toronto
7	National University of Singapore
8	Imperial College London

TIMES HIGHER EDUCATION, GLOBAL EMPLOYABILITY UNIVERSITY RANKING, 2016

93%
of undergraduates employed
within 2 years of graduation

COUNCIL OF ONTARIO UNIVERSITIES, 2014

Overall impact of research
\$15.7B
annually to the
Canadian Economy

U OF T ECONOMIC IMPACT REPORT, 2013

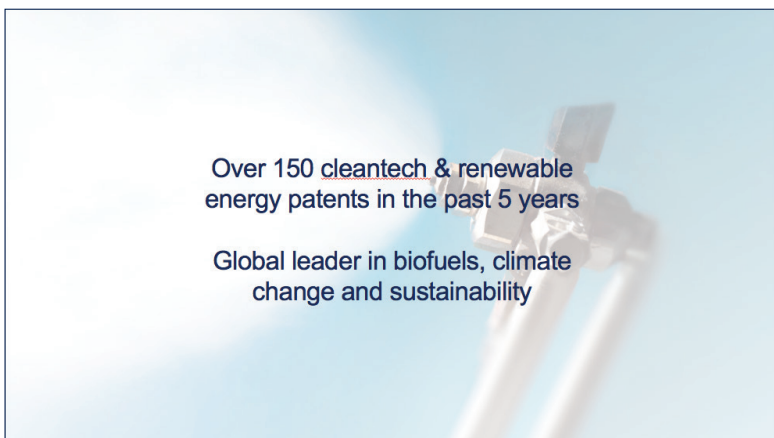
\$5.7B
annually to the
Ontario Economy

U OF T ECONOMIC IMPACT REPORT, 2013

On the economic front, the University's activities generate significant benefit for Canada, including the innovation flowing from U of T research.

They also generate significant benefit for the province of Ontario. This is a testament to the tangible effect of its research on productivity and growth.

We're fortunate to enjoy strengths in a number of areas, some of which are closely tied to the Toronto region's leading industry hubs. These areas include:



- Fintech

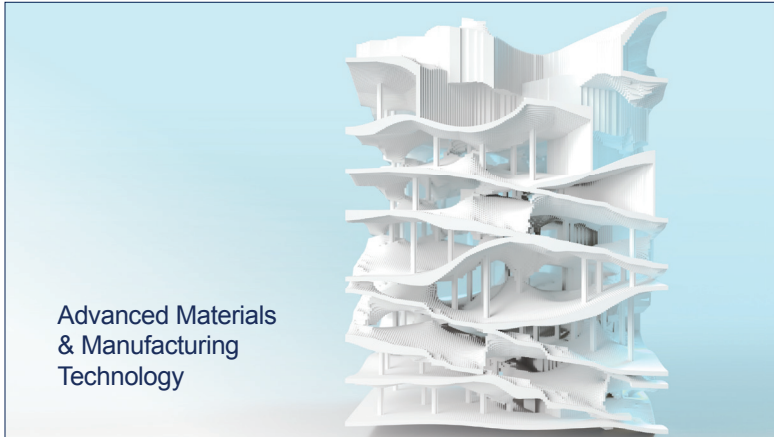
HIDDEN SLIDE:

Drawing on our strengths in ICT, U of T researchers are creating next-generation computational and data analytic methods and tools. U of T researchers are also integrating the University's traditional strength in data security and privacy to develop defense-in-depth cyberphysical frameworks that will underpin the next generation of fintech applications such as mobile payments, money transfers, loans, fundraising, and asset management.

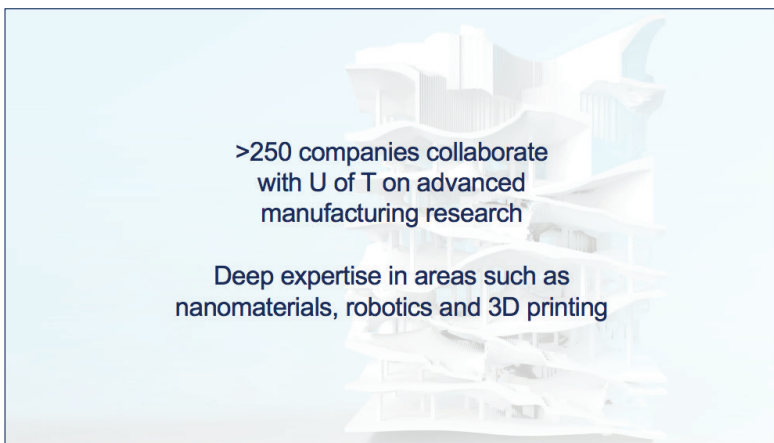
- Cleantech and Renewable Energy

HIDDEN SLIDE:

U of T has a long and outstanding record of global leadership in research and innovation in fields related to energy, environment, climate change, sustainability, cleantech and biofuels. A great deal of this activity is being translated into patents, licenses, and start-up companies that have the potential to offer cleaner energy solutions to the world.

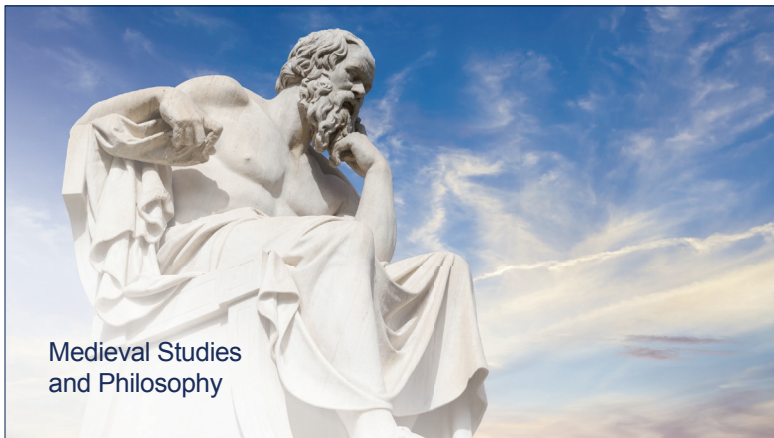


- Advanced Materials and Manufacturing Technology

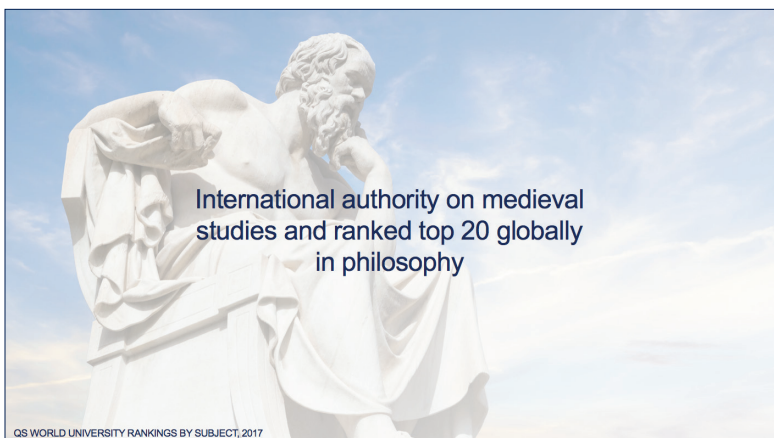


HIDDEN SLIDE:

U of T is a hub for advanced materials and manufacturing research and tests new ideas that have the potential to boost productivity, save money and reduce environmental impact. Over 250 companies and industry organizations collaborate with U of T on advanced manufacturing research, including BMW, DuPont, IBM and Proctor & Gamble.



- Philosophy and Medieval Studies



HIDDEN SLIDE:

Our medieval studies group is recognized as an international authority while our philosophy group ranks 18th in the world.



- Children's Health and Development



HIDDEN SLIDE:

Our wide-ranging expertise on the wellbeing of children extends from the very early days of life to studies on the development of empathy in young children to internationally recognized scholarship on bullying and cutting-edge thought leadership on educating children.



- Legal Studies



HIDDEN SLIDE:

The University of Toronto's law school has a rich tradition of graduating leading legal minds and is justly ranked in the top 20 law schools worldwide. Our Centre for Criminology and Sociological Studies contributes leading scholarship on crime, order and security from a variety of disciplinary perspectives and theoretical approaches.

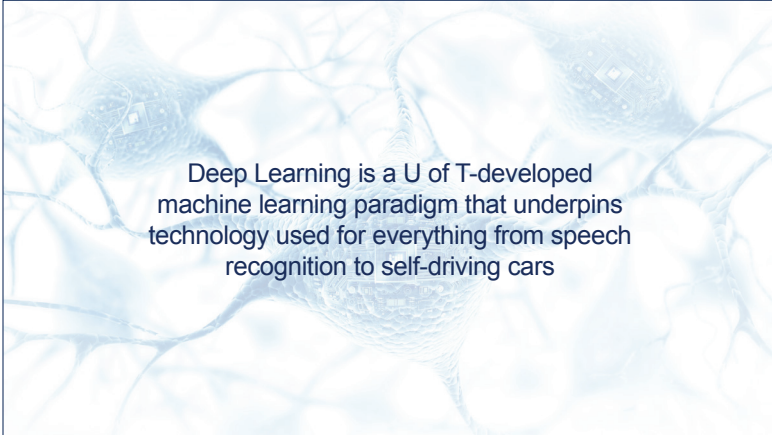


- Genomics

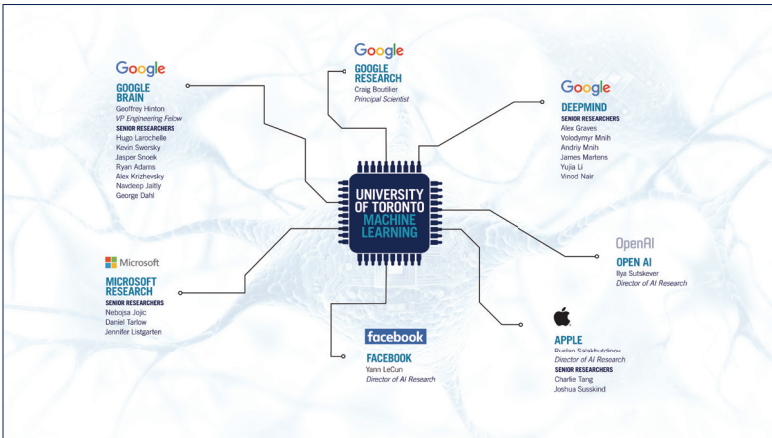
HIDDEN SLIDE:

U of T is conducting groundbreaking work in genomics. Research carried out by Professor Stephen Scherer's team resulted in a "genetic formula" that can help clinicians identify genetic mutations that have the highest and lowest likelihood of causing Autism Spectrum Disorder. The University is now sequencing the whole genomes of 10,000 people each year, which will aid in our overall understanding of complex diseases and our advance of precision medicine.

We are particularly known for ARTIFICIAL INTELLIGENCE & MACHINE LEARNING:



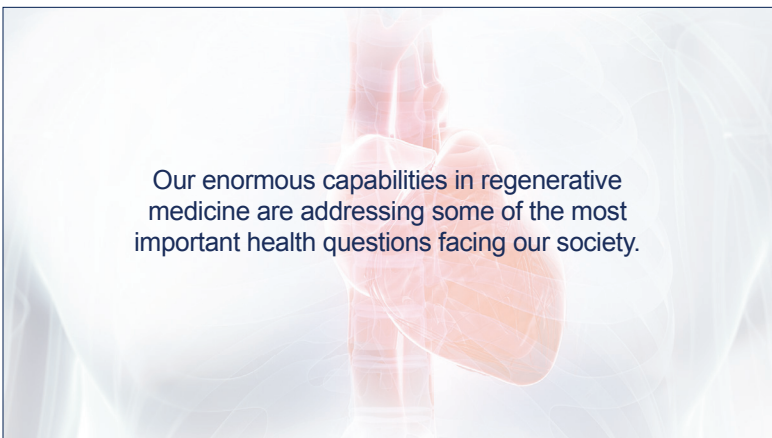
We're world leaders in this area. U of T's Geoffrey Hinton co-developed deep learning, a paradigm that's unleashing game-changing advances, including those crucial to fintech products and services such as fraud detection, cybersecurity and big data analysis.



U of T graduates are some of the most sought after in the industry.



We are also internationally renowned for our work in REGENERATIVE MEDICINE:



Our enormous capabilities in regenerative medicine are addressing some of the most important health questions facing our society. U of T's integrated system of specialized facilities dedicated to basic and applied research, clinical translation, advanced manufacturing and commercialization will help us reach this goal.



URBAN STUDIES:

People around the world look to the University of Toronto for thought leadership on how to improve and redesign cities. Our President, Meric Gertler, is an internationally renowned expert on how innovation and creativity drive cities and their economies,

... and our professor Richard Florida is another top expert whose research provides unique, data-driven insight into the social, economic and demographic factors that drive the 21st century world economy.

SECTION 2
INNOVATION AND IMPACT



As you can see from this video, the University of Toronto's research is impacting all corners of the globe. I'd now like to speak about our innovation and impact. For over a century, we have been making discoveries that have changed life for the better and added to the world's collective knowledge.

These include:

- Cosmic rays (John Cunningham McLellan, 1903)

- Insulin (Frederick Banting, Charles Best, J.J.R. Macleod and Bertram Collip, 1921)

ADDITIONAL NOTES FOR SPEAKER:

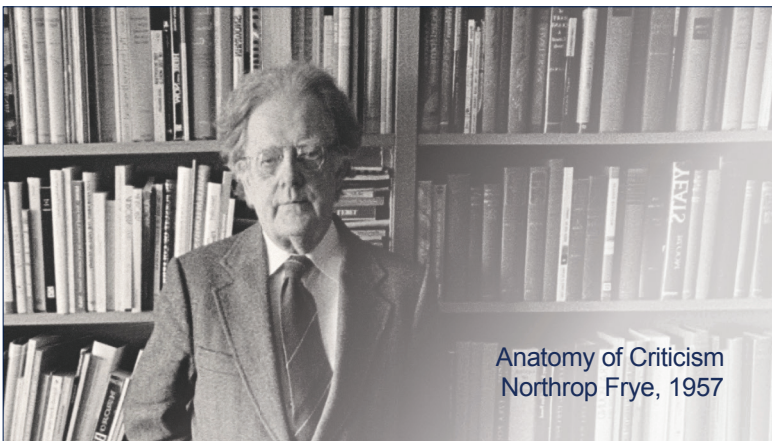
In what is perhaps one of the most famous partnerships in U of T history, alumni and research team Frederick Banting, Charles Best, J.J.R. Macleod and Bertram Collip discovered insulin in 1921 – a discovery that has saved millions of lives around the globe.



- The world's first Electronic Heart Pacemaker (W.G. Bigelow, 1950)

ADDITIONAL NOTES FOR SPEAKER:

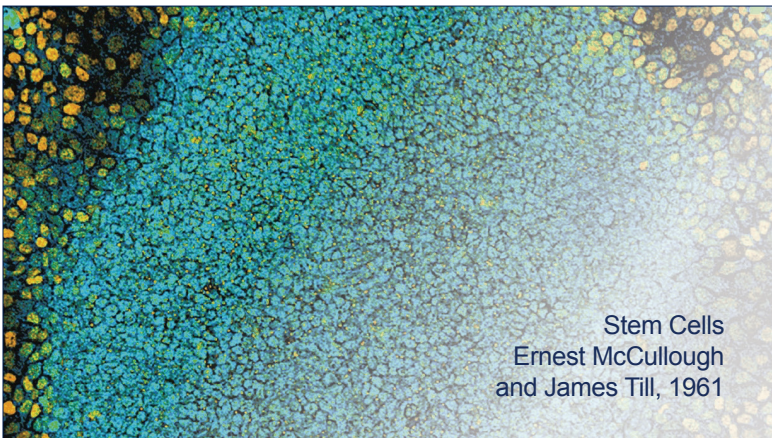
Bigelow also demonstrated that lowering the body's core temperature and oxygen requirements made open heart surgery possible, paving the way for other surgeons to perform the world's first open heart surgery in 1952.



- Anatomy of Criticism (Northrop Frye, 1957)

ADDITIONAL NOTES FOR SPEAKER:

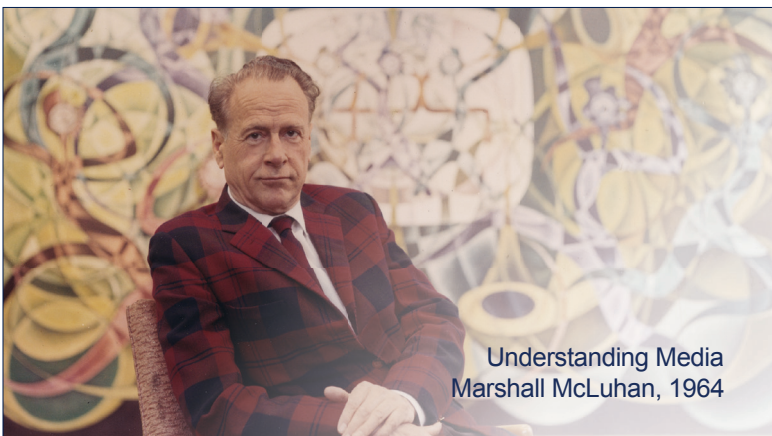
Northrop Frye changed the face of literary criticism with his seminal work, Anatomy of Criticism.



- Stem Cells (Ernest McCullough and James Till, 1961)

ADDITIONAL NOTES FOR SPEAKER:

U of T researchers James Till and Ernest McCullough uncovered the existence of transplantable stem cells in 1961, which are a vital source of treatments for a variety of diseases and conditions.



- Understanding Media (Marshall McLuhan, 1964)

ADDITIONAL NOTES FOR SPEAKER:

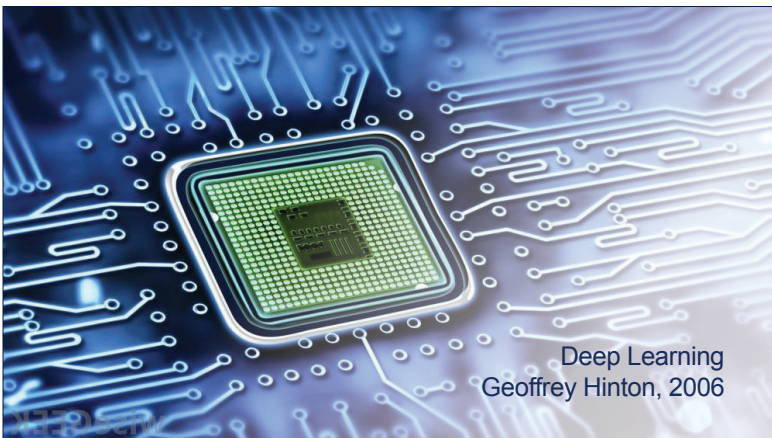
McLuhan is known for the expression "the medium is the message" and the term "global village", and for predicting the Internet decades before it was invented.



- Two Genes Responsible for Early-Onset Alzheimer's (Peter St George-Hyslop, 1995)

ADDITIONAL NOTES FOR SPEAKER:

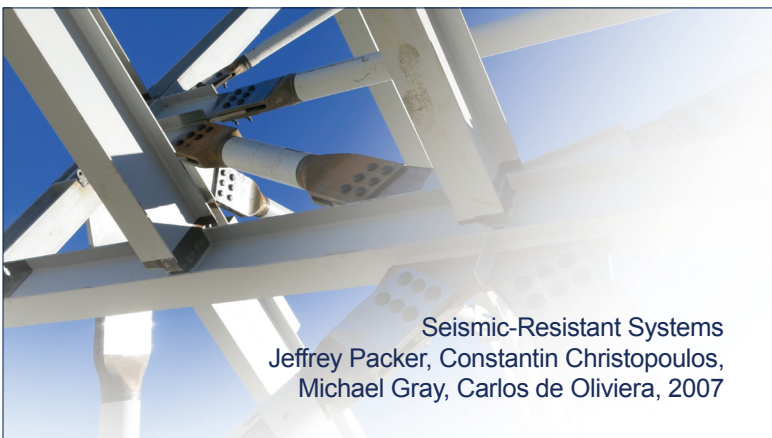
In addition to playing a primary or partial role in discovering the approximately 20 genes associated with Alzheimer's, St George-Hyslop and his team have also experienced success in determining the functions of amyloids, harmful proteins that build up in the brains of Alzheimer's patients. These are thought to be a key factor in the progression of the disease.



- Deep Learning (Geoffrey Hinton, 2006)

ADDITIONAL NOTES FOR SPEAKER:

Deep Learning is a U of T-developed machine learning paradigm that underpins technology used for everything from speech recognition to self-driving cars (NOTE: this information is mentioned earlier in the presentation).



- Seismic-Resistant Systems (Jeffrey Packer, Constantin Christopoulos, Michael Gray, Carlos de Oliveira, 2007)

ADDITIONAL NOTES FOR SPEAKER:

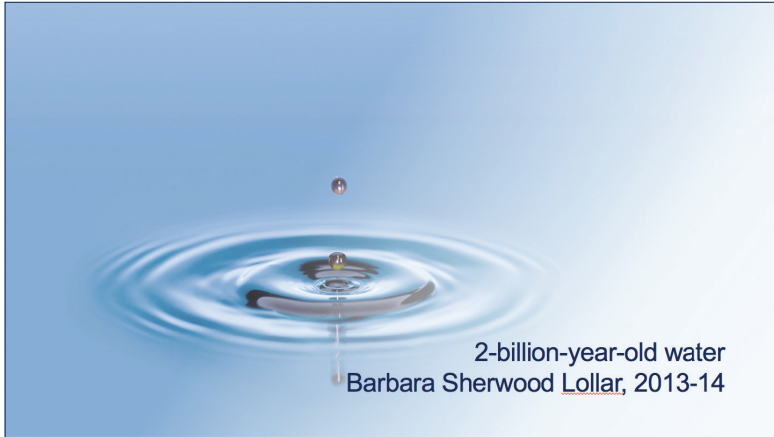
These four innovators founded Cast ConneX Corporation, a start-up out of U of T's Department of Civil Engineering. It is the industry leader in the use of cast steel components for constructing buildings and bridges.



- The uncovering of Ghostnet (Ron Deibert, 2009)

ADDITIONAL NOTES FOR SPEAKER:

Ghostnet is a cyber espionage network.



- The discovery of the oldest known flowing waters in the world (Barbara Sherwood Lollar, 2013-14)

ADDITIONAL NOTES FOR SPEAKER:

Two groundbreaking papers in Nature in 2013 and 2014 announced the discovery of the oldest known flowing waters, locate two to three kilometres deep in the oldest rocks of the Precambrian that form the core of our continents. The discovery of deep saline fracture waters of such unparalleled antiquity [and the potential for subsurface microbial life] had an extraordinary impact, both in earth and planetary science, in the context not only of expanding our understanding of Earth's subsurface life and habitability but for its implications for the origin of methane on Mars and implications for astrobiology.



- And Indigenous Languages Preservation (Keren Rice, Present Day)

ADDITIONAL NOTES FOR SPEAKER:

Keren Rice is one of the world's leading experts in the linguistic analysis and preservation of aboriginal languages in Canada's Northwest Territories.

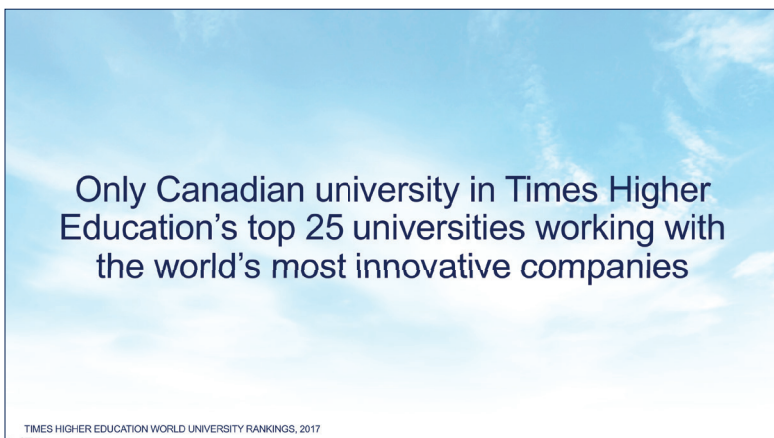


The culture of research and discovery that catalyzed these landmark breakthroughs at the University of Toronto has inspired many inventions.

According to a 2016 report, the University of Toronto is one of two Canadian universities on the list of the world's most innovative institutions.

ADDITIONAL NOTES FOR SPEAKER:

UBC is ranked 50th, U of T is 57th.



U of T is also one of the top 20 universities in the world to be working with the world's most innovative companies.

**Note: text is not editable on animation slides.*



In a 3-year period, 1143 inventions in over 60 fields, filed 300 licenses and more than 300 new patent applications

In just a three-year period – between 2011 and 2014 – U of T researchers and partner hospitals created over 1,100 inventions in more than 60 fields, and filed more than 300 licenses and more than 300 new patent applications.

**Note: text is not editable on animation slides.*



3/4 of U of T inventions are co-developed by students or post-docs

About three-quarters of U of T inventions are codeveloped by students or post-doctoral fellows. This, of course, speaks to the culture of creativity and innovation we have established among our students.

**Note: text is not editable on animation slides.*



A leader among North American universities for research-based startups

U of T is a leader among top North American institutions for research-based startups. Start-ups flourish at U of T and a critical reason for this is the entrepreneurial ecosystem that the University cultivates.

ADDITIONAL NOTES FOR SPEAKER:

This ecosystem allows students to experience entrepreneurship in a mentored environment and provides inventive minds with the space to shape and test their ideas. Some of these ideas are pretty incredible - such as solar vehicles!

**Note: text is not editable on animation slides.*



Over 170 courses that cover entrepreneurship

We offer over 170 courses that cover entrepreneurship and these courses attract close to 12,000 registrants, many of them our own students.

**Note: text is not editable on animation slides.*



Entrepreneurial hubs across 3 campuses assist more than 200 student-led startup teams each year

Entrepreneurial hubs across our three campuses assist more than 200 student-led start-up teams each year,

**Note: text is not editable on animation slides.*

...involving approximately 200 mentors.



200 volunteer mentors involved in U of T's entrepreneurial hubs

**Note: text is not editable on animation slides.*

This emphasis on entrepreneurship is having impressive results. In the last five years, U of T has created more than 150 start-ups.



More than 150 startups in the last 5 years

ADDITIONAL NOTES FOR SPEAKER:

Between 2013 and 2015, researchers at U of T and partner hospitals filed a new patent application at a rate of about once every three days.

**Note: text is not editable on animation slides.*

Since 2006, U of T startup companies have raised over half a billion dollars!



Since 2006, U of T startup companies have raised over half a billion dollars

As you can see, U of T is a global leader in transforming innovative ideas into products, services, companies and jobs – a direct result of our research intensive ecosystem.

**Note: text is not editable on animation slides.*

\$1.2 billion in research funding -
U of T and partner hospitals

This ecosystem plays an important role in attracting research funding. Along with the University's partner hospitals, U of T researchers were awarded 1.2 billion dollars in the last year alone.

**Note: text is not editable on animation slides.*

Secured more than 15% of all tri-agency funding
granted to Canadian Universities

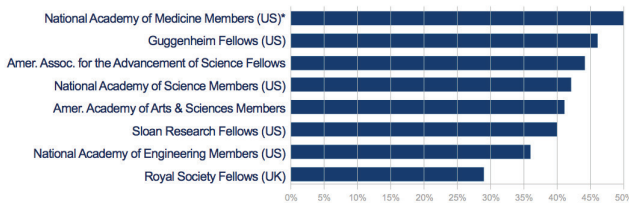
Funding from Canada's three federal granting agencies provides approximately one third of this sum. When we compare what these agencies grant to all the other post-secondary institutions in Canada, we see that U of T attracts a significant proportion: more than 15 percent in the 2015-16 fiscal year.

ADDITIONAL NOTES FOR SPEAKER:

The granting agencies are: the Canadian Institutes for Health Research (CIHR), the Social Sciences and Humanities Research Council (SSHRC) and the Natural Sciences and Engineering Research Council (NSERC).

**Note: text is not editable on animation slides.*

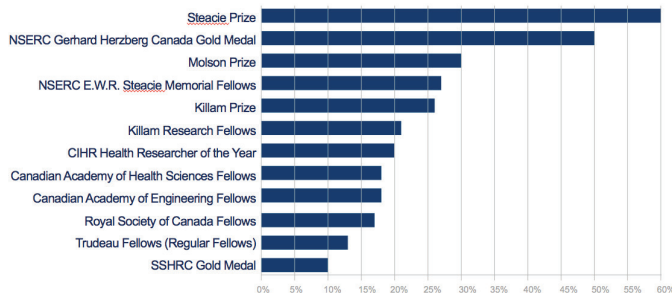
INTERNATIONAL AWARDS (2007-2016)



We're thrilled to be on the cutting-edge of such life-changing research.

U of T faculty consistently win more national and international awards and prizes than their peers at any other Canadian university – another important measure of scholarly research excellence.

NATIONAL AWARDS (2007-2016)



Despite comprising only seven percent of Canada's professorial faculty, U of T researchers have secured a dominant share of prestigious honours.

ADDITIONAL NOTES FOR SPEAKER:

In the case of the NSERC Gerhard Herzberg Canada Gold Medal and the Steacie Prize, this percentage is as high as 50 percent.

13 of the 24 Canadian winners
of the most prestigious international
awards are based at U of T.

UNIVERSITIES CANADA



Natalie Enright Jerger

Sloan Research Fellowship
in Computer Science



Nikolai Kremmentsov

Guggenheim Fellowship
in Humanities



Julie Lefebvre

Sloan Research Fellowship
in Neuroscience

In 2016, the Governor General of Canada published a booklet to commemorate those who have won the most prestigious international awards and celebrate the fact that Canada is a creative and innovative nation.

Out of the twenty-four awards included in this publication, thirteen are based at U of T, including:

- Natalie Enright Jerger (Sloan Research Fellowship in Computer Science)

ADDITIONAL NOTES FOR SPEAKER:

Natalie Enright Jerger was awarded a Sloan Research Fellowship for her vital work in finding more efficient ways for networks on computer processor chips to communicate.

- Nikolai Kremmentsov (Guggenheim Fellowship in Humanities)

ADDITIONAL NOTES FOR SPEAKER:

Historian Nikolai Kremmentsov was awarded a Guggenheim Fellowship to carry out research on the interactions among science, medicine and literature in Bolshevik Russia.

- Julie Lefebvre (Sloan Research Fellowship in Neuroscience)

ADDITIONAL NOTES FOR SPEAKER:

Julie Lefebvre was awarded a 2015 Sloan Research Fellowship in Neuroscience for her work to understand the fundamental mechanisms of how the brain is wired.



HIDDEN SLIDE:

- Artur Izmaylov (Sloan Research Fellowship in Chemistry)

ADDITIONAL NOTES FOR SPEAKER:

Artur Izmaylov was awarded a Sloan Research Fellowship for his ground-breaking research to understand and model chemical dynamics involving multiple electronic states in molecules and materials.

HIDDEN SLIDE:

- Molly Shoichet (L'Oréal-UNESCO Award for Women in Science)

ADDITIONAL NOTES FOR SPEAKER:

Molly Shoichet was named North American winner of the L'Oréal-UNESCO Women in Science award for the development of new materials to regenerate damaged nerve tissue and for a new method that can deliver drugs directly to the spinal cord and brain.

HIDDEN SLIDE:

- Daniel Wigdor (Sloan Research Fellowship in Computer Science)

ADDITIONAL NOTES FOR SPEAKER:

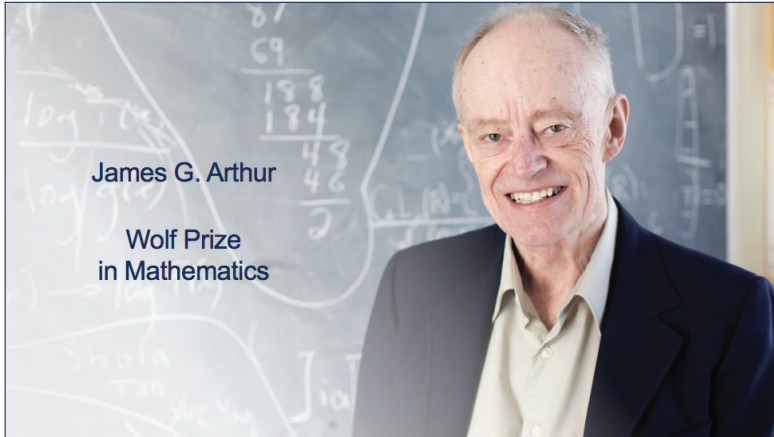
Daniel Wigdor was awarded a Sloan Research Fellowship to further his research on human-computer interaction, specifically how to reduce the delay experienced when using smartphones and tablets.

HIDDEN SLIDE:

- Thomas Keymer (Guggenheim Fellowship in Humanities)

ADDITIONAL NOTES FOR SPEAKER:

Thomas Keymer was awarded a 2015 Guggenheim Fellowship in Humanities in recognition of his outstanding research and teaching career in English literature. The award will enable him to complete a book about the interplay between official press control and politically inflected literature between 1660 and 1820.

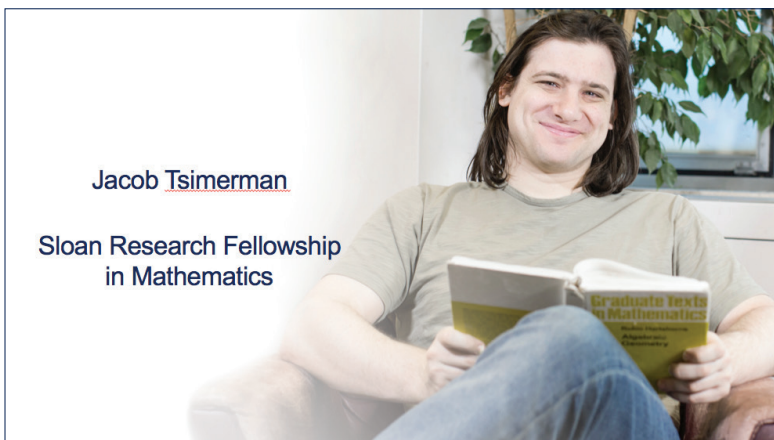


HIDDEN SLIDE:

- James G. Arthur (Wolf Prize in Mathematics)

ADDITIONAL NOTES FOR SPEAKER:

James G. Arthur was awarded the prestigious 2015 Wolf Foundation Prize in Mathematics for "his monumental work on the trace formula and his fundamental contributions to the theory of automorphic representations of reductive groups."

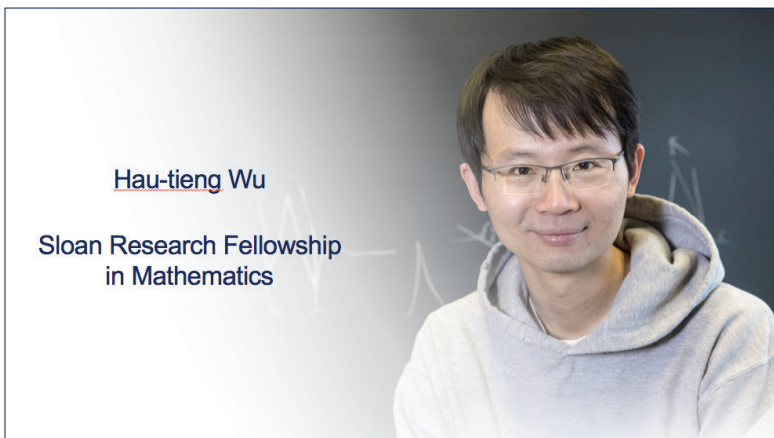


HIDDEN SLIDE:

- Jacob Tsimerman (Sloan Research Fellowship in Mathematics)

ADDITIONAL NOTES FOR SPEAKER:

Jacob Tsimerman has been awarded a Sloan Research Fellowship in Mathematics in recognition of his original contributions to number theory.



HIDDEN SLIDE:

- Hau-tieng Wu (Sloan Research Fellowship in Mathematics)

ADDITIONAL NOTES FOR SPEAKER:

Hau-tieng Wu was awarded a 2015 Sloan Research Fellowship to further his mathematical work and statistical big data analysis, as well as his research into their medical applications.



HIDDEN SLIDE:

- James Retallack (Guggenheim Fellowship in Humanities)

ADDITIONAL NOTES FOR SPEAKER:

James Retallack was awarded a Guggenheim Fellowship in Humanities, which will enable him to further research on pre-First World War Germany, a crucial moment in German and world history.

255 Canada Research Chairs

Peng Ho	Sheena Josselyn	Paul Frankland	Mary-Josée Fortin	Anne-Claude Gingras	Lucy Osborne	
Chi-Chung Hui	John Dick	John Cunningham	Frank Sicheri	Ulrich Tepass	Sell Tagliamonte	Steven Narod
Sharon Straus	Richard Gilbert	Donald Riedelmeier	Molly Shoichet	Neil Vasdev	Alex Jacobson	Joanne Kotsopoulos
Luyi Yang	John Calarco	David Duvenaud	David Levin	Martin Beaulieu	Michael Thaut	Eve Tuck
Andras Ticsak	Jed Maltzer	Anna Goldenberg	Rutan Parekh	Jean-Philippe Julien	Brady Wouters	

At 255, U of T's allocation of Canada Research Chairs (or CRCs) is the largest in the country, and 73 more than the university with the second-most CRCs. U of T currently has 246 CRCs filled.

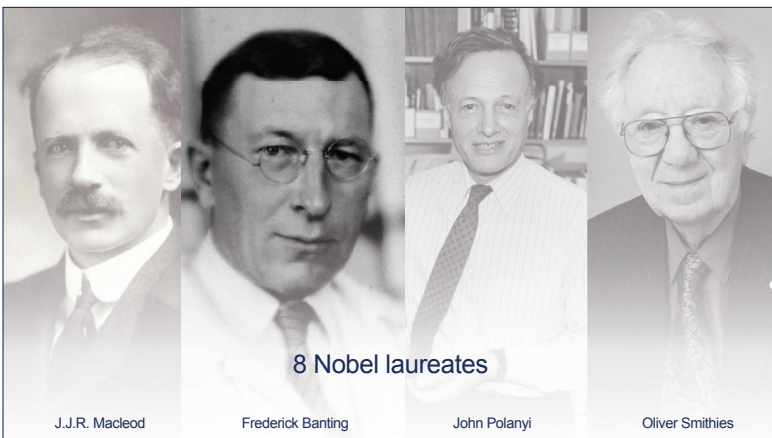
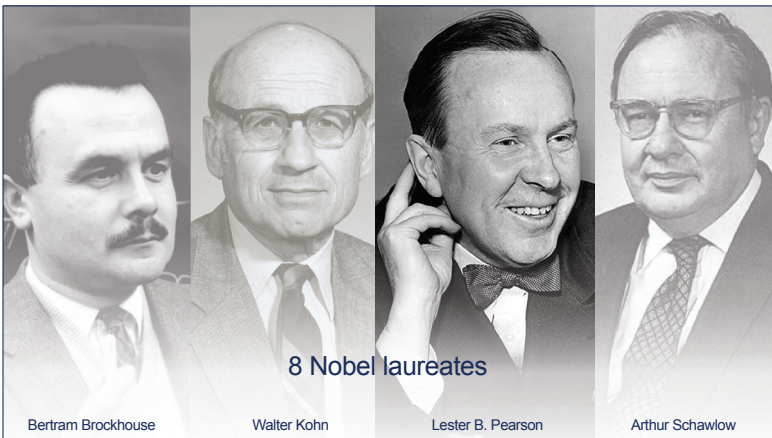
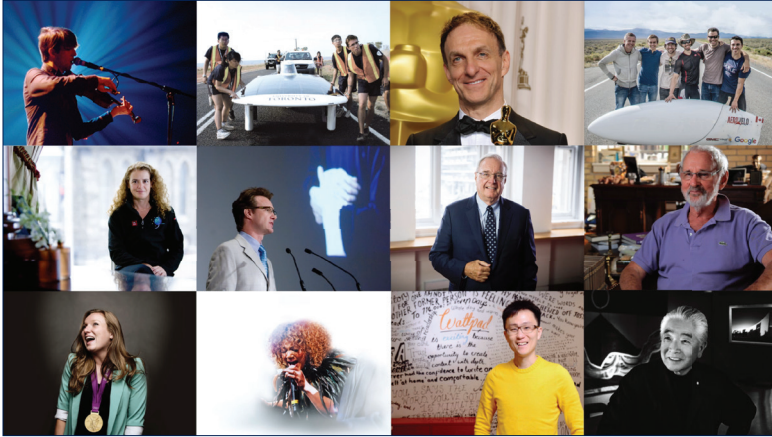
One outstanding example of the University of Toronto's faculty is Molly Shoichet, a regenerative medicine pioneer whose award-winning research could help restore brain and nerve connections damaged by stroke, spinal cord injury, and blindness.

**Note: text is not editable on animation slides.*

Molly Shoichet Vignette

SECTION 3

**EXCELLENCE AND LEADERSHIP
IN SOCIETY**



I'd now like to speak about U of T's excellence and leadership in society.

Perhaps the most prestigious measure of any intellectual community is its association with the Nobel Prize. Eight Nobel laureates have been part of U of T's community. These include:

- Lester B. Pearson, who remains not only one of Canada's best-known Prime Ministers but also one of the 20th century's most influential statesmen.

ADDITIONAL NOTES FOR SPEAKER:

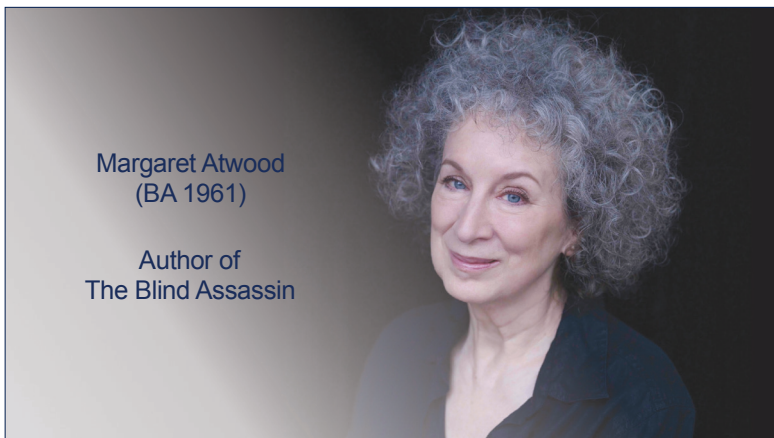
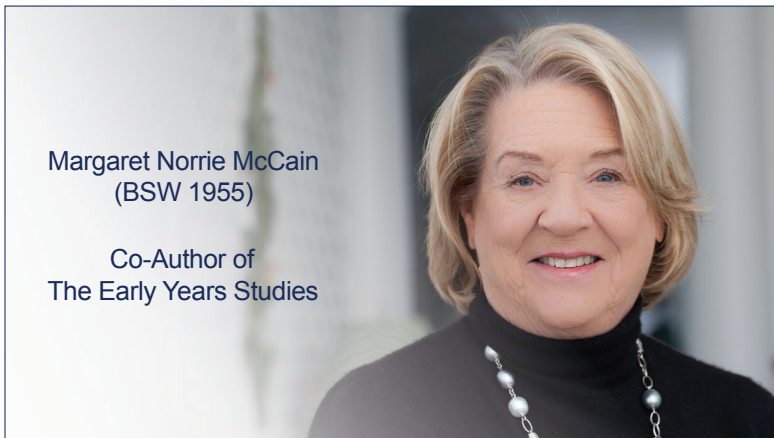
List of Nobel Laureates associated with U of T: Bertram Brockhouse (alumnus MA 1948, PhD 1950) was awarded the Nobel Prize in Physics in 1994, along with Clifford Shull, "for pioneering contributions to the development of neutron scattering techniques for studies of condensed matter", in particular "for the development of neutron spectroscopy". Arthur Schawlow (alumnus PhD 1949) – was awarded the 1981 Nobel Prize in Physics along with Nicolaas Bloembergen and Kai Siegbahn for his work on lasers. Walter Kohn (alumnus MA 1946) was awarded the Nobel Prize in chemistry in 1998 along with John Pople for contributions to the understandings of the electronic properties of materials

- And Frederick Banting and John Macleod, who, as I mentioned earlier, discovered insulin with Charles Best and Bertram Collip – one of the most life-changing discoveries of the 20th century

ADDITIONAL NOTES FOR SPEAKER:

List of Nobel Laureates associated with U of T: J.J.R. Macleod (faculty) and Frederick Banting (faculty and alumnus) received the 1923 Nobel prize in Physiology or Medicine for their discovery of insulin, along with Charles Best and Bertram Collip. Banting, who received the Nobel Prize at age 32, remains the youngest Nobel laureate in the area of Physiology/Medicine. John Polanyi (faculty) won the 1986 Nobel Prize in Chemistry, for his research in chemical kinetics. Polanyi's first academic appointment was at the University of Toronto, and he remains there as of 2017. Oliver Smithies (faculty) won the Nobel Prize in Physiology or Medicine in 2007 for his genetics work, along with Mario R. Capecchi and Sir Martin J. Evans. In conjunction with attempts to find treatment methods for hereditary blood diseases, Oliver Smithies discovered that a disease-causing gene could be modified. He spent 7 years as faculty at U of T, from 1953 to 1960, and credits early observations of gene duplication made at that time as leading to his later discoveries that were recognized by the Nobel Foundation.

ON-SCREEN IMAGE



SPEAKERS NOTES

Trailblazing ideas conceived by U of T alumni have shaped global conversations and continue to do so today. These include:

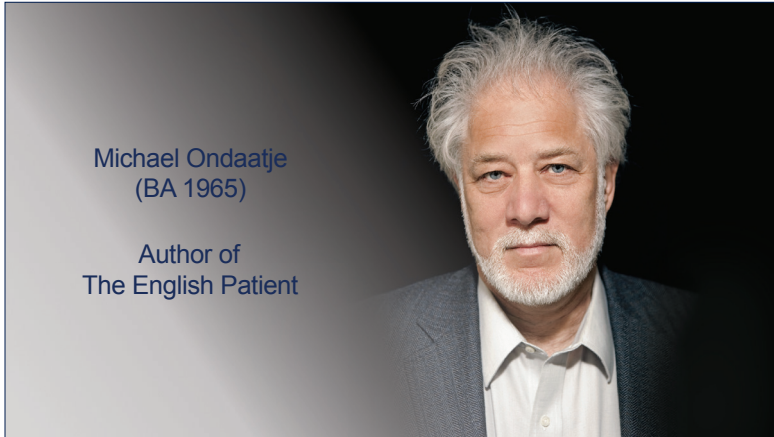
Thought-leaders, such as:

- Malcolm Gladwell (his work, such as *The Tipping Point*, has shaped the way we think about trends, marketing, and the spread of ideas)
- The Honourable Rosalie Silberman Abella (she headed the Royal Commission on Equity in Employment, creating the concept of “employment equity”)
- Margaret Norrie McCain (she is co-author of *The Early Years Studies* report, which provided recommendations on children’s wellbeing)

Award-winning authors, such as:

- Margaret Atwood (her books include *The Blind Assassin*, which won the Man Booker Prize)

ON-SCREEN IMAGE



SPEAKERS NOTES

- Michael Ondaatje (his books include The English Patient, which won the Man Booker Prize)

- Rohinton Mistry (his books include A Fine Balance, which won the Giller Prize)

Advocates for global issues, such as:

- Samantha Nutt (founder of War Child Canada, which works with children and their families at the frontlines of many of the world's places of unrest)

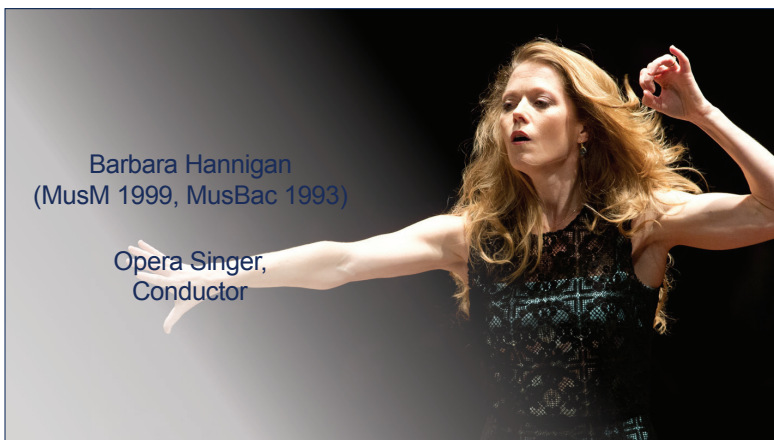
*ADDITIONAL NOTES FOR SPEAKER:
PGMT = post-graduate medical training*

- Craig Kielburger (founded Free the Children when he was just a young teen and felt moved to tackle the global issue of child labour)

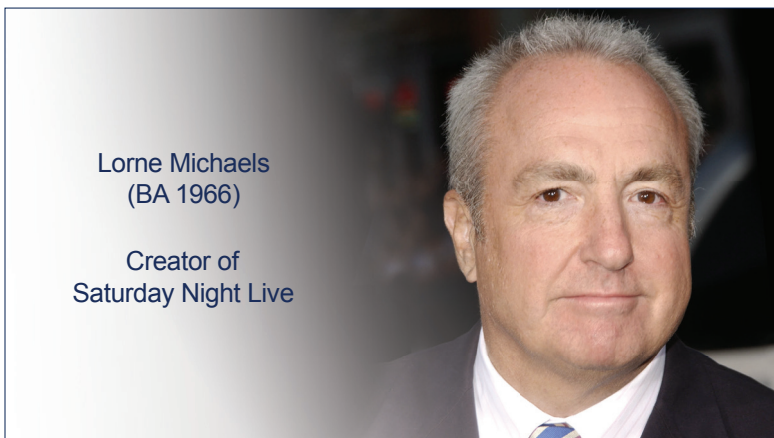


- Johann Olav Koss (founder of Right to Play, which is today active in more than 20 countries)

Stars of arts and culture, such as:



- Barbara Hannigan (world-famous opera singer and conductor)



- Lorne Michaels (creator of Saturday Night Live)

4 Canadian Prime Ministers



U of T alumni have held the very top positions in Canada, and we are very proud to include four Prime Ministers...

ADDITIONAL NOTES FOR SPEAKER:

Prime Ministers William Lyon Mackenzie King, Arthur Meighen, Lester B. Pearson and Paul Martin all received degrees from U of T, as did Governors General Adrienne Clarkson and Vincent Massey.

*Note: text is not editable on animation slides.

4 Canadian Prime Ministers

3 Governors General



... three Governors General...

**Note: text is not editable on animation slides.*

4 Canadian Prime Ministers

3 Governors General

14 Supreme Court Justices



... and 14 Supreme Court Justices among them.

**Note: text is not editable on animation slides.*

4 Canadian Prime Ministers

3 Governors General

14 Supreme Court Justices

299 Olympic Athletes
(alumni and students)



There are many other fields in which U of T alumni have excelled.

These include:

- Olympic athletes (299 alumni and students)

**Note: text is not editable on animation slides.*

- Astronauts (2)

ADDITIONAL NOTES FOR SPEAKER:

So far, there have been just two Canadian female astronauts - Roberta Bondar and Julie Payette - but U of T can claim both of them as alumni!

4 Canadian Prime Ministers

3 Governors General

14 Supreme Court Justices

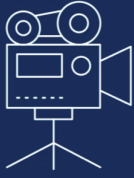
299 Olympic Athletes
(alumni and students)

2 Astronauts



**Note: text is not editable on animation slides.*

5 Academy Award winners



- Academy Award winners (5)

**Note: text is not editable on animation slides.*

5 Academy Award winners

23 Juno Award winners



- Juno Award winners (23)

**Note: text is not editable on animation slides.*

5 Academy Award winners

23 Juno Award winners

5 Grammy Award winners



- Grammy Award winners (5)

**Note: text is not editable on animation slides.*

5 Academy Award winners

23 Juno Award winners

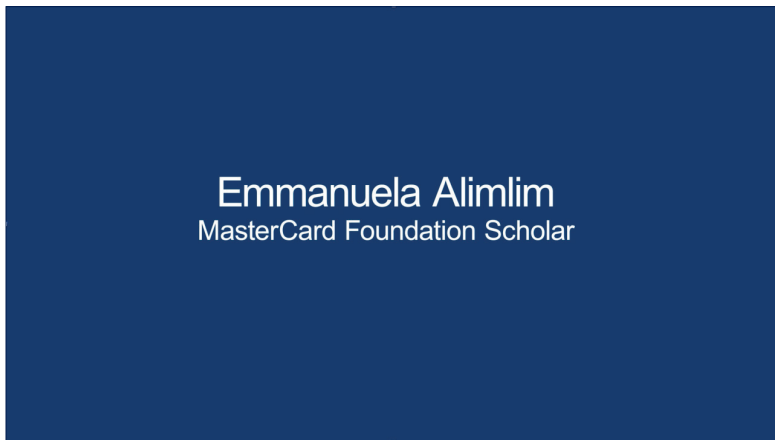
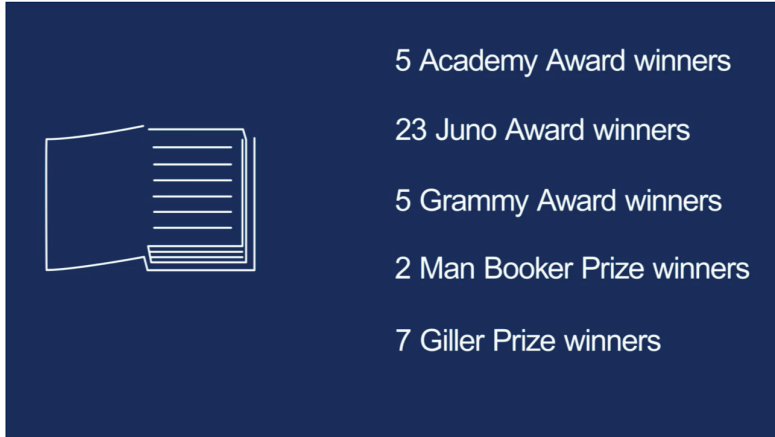
5 Grammy Award winners

2 Man Booker Prize winners



- Man Booker Prize winners (2)

**Note: text is not editable on animation slides.*



- Giller Prize winners (7)

**Note: text is not editable on animation slides.*

These alumni are able to achieve so much because they are drawing on the transformative educational experience available at the University of Toronto. One of our students will share just what a difference this has made to her life.

**Note: text is not editable on animation slides.*

As Emmanuela made clear, top students from across Canada and around the globe are drawn to U of T. There are three important reasons for this:

- Our accessibility
- Our diversity
- And our excellence

First, our accessibility:



Fifty percent of first-year students come from a family with an annual income of less than 50,000 dollars, which reflects the University's commitment to ensuring that no qualified student will be denied access for financial reasons – a commitment that is unique among Canadian universities.

Next, our diversity:



Eighty percent of our first-year students identify as a visible minority.

And our excellence:



Students receive the very best in teaching. Ninety-seven percent of accomplished scholars take an active role in undergraduate instruction and engagement.

ADDITIONAL NOTES FOR SPEAKER:

"Accomplished scholars" are defined as Canada Research Chairs, University Professors and/or endowed chairs.



The number of prestigious student awards received by our graduate students provides an assessment of the University's ability to recruit excellent students and provide an environment in which they can thrive. Between 2007 and 2016, 16.7% of prestigious Canadian doctoral scholarships awarded to U of T students, even though they only comprise 11% of total Canadian doctoral students.

ON-SCREEN IMAGE

SPEAKERS NOTES



U of T is also unique in the style of learning it offers its students. In fact, U of T is leading a revolution in the way education is offered and developed. Here students focus not just on the skills necessary to complete their degree, but also the competencies that underpin these skills, such as leadership, global fluency, and team work.

Founded in 1827

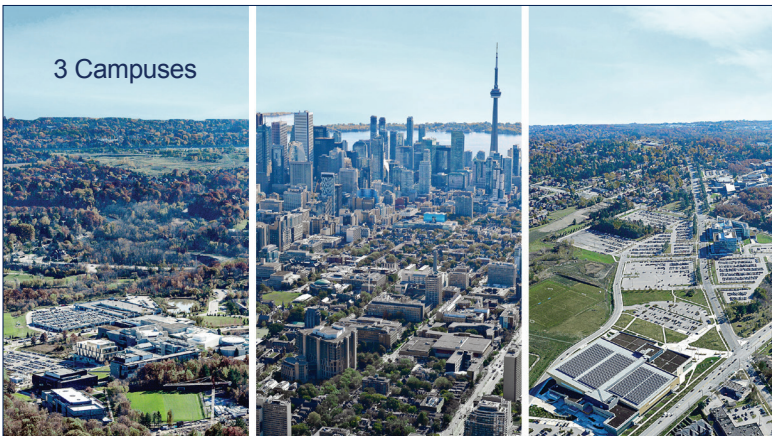


Our location plays a vital role in this style of learning. When U of T was founded in 1827, Toronto was just a fledgling urban centre.



Like U of T, it has grown immensely, as have our contributions to each other. This symbiotic relationship has played a vital role in the University's position on the world stage today.

3 Campuses



Our three campuses span the Greater Toronto Area, which allows students to take part in work-integrated learning throughout one of the world's most diverse urban environments.



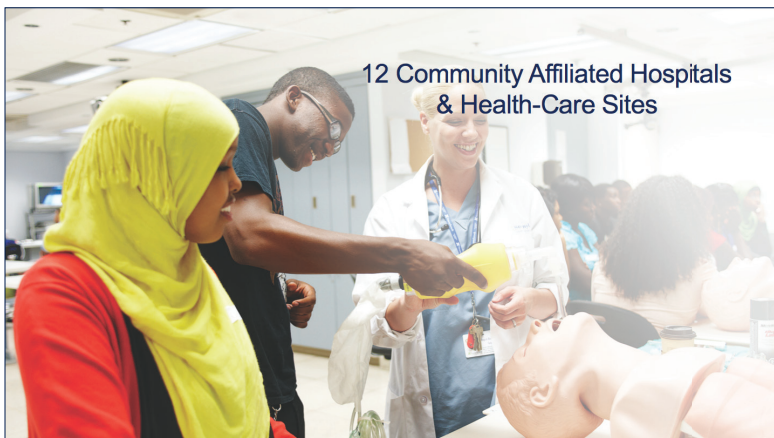
Smaller learning communities enhance these opportunities, which is why every student within the Faculty of Arts and Science is affiliated with one of seven colleges.



Our nine fully affiliated hospitals...

ADDITIONAL NOTES FOR SPEAKER:

*Baycrest Health Sciences
Holland Bloorview Kids Rehabilitation Hospital
Centre for Addiction and Mental Health
Hospital for Sick Children
Mount Sinai Hospital
St. Michael's Hospital
Sunnybrook Health Sciences Centre
University Health Network
Women's College Hospital*



... and twelve community-affiliated hospitals and health-care sites offer teaching and research experiences for our health-sciences students that are among the best in North America.

ADDITIONAL NOTES FOR SPEAKER:

*Humber River Hospital
Lakeridge Health
Markham-Stouffville Hospital
Ontario Shores Centre for Mental Health Sciences
Providence Healthcare
Royal Victoria Regional Health Centre
The Scarborough Hospital
Southlake Regional Health Centre
Rouge Valley Health System
West Park Healthcare Centre
Waypoint Centre for Mental Health Care
William Osler Health System*



Our student-run dentistry clinic serves community members who might otherwise not receive quality dental care,

ON-SCREEN IMAGE

SPEAKERS NOTES



... and our student-run legal clinic assists those who cannot afford legal advice.

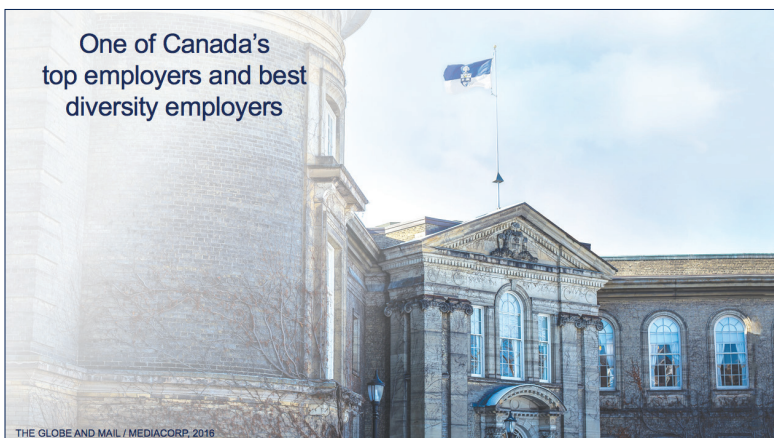


Our students also volunteer throughout the community and take part in learning opportunities that allow them to work with community projects.

The way we interact with our community is not only important from a pedagogical point of view, but it connects the city to the University's intellectual resources and global reach.



For example, our Munk School of Global Affairs hosts many events that heighten awareness of the world around us.

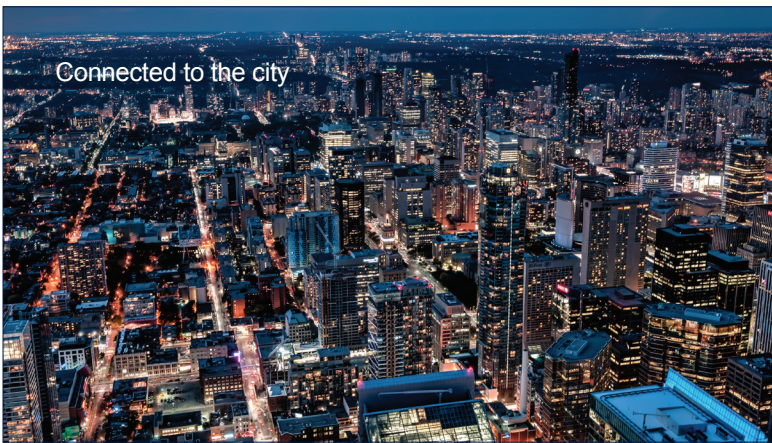


Faculty and staff will tell you U of T provides a work environment that encourages them to achieve their very best. This is why the University of Toronto is widely recognized as one of Greater Toronto's top employers



80% of faculty and staff are very satisfied with their job

In fact, 80 percent of faculty and staff report being very satisfied with their job.



Connected to the city

As U of T looks to the future, it will continue to celebrate the rich and remarkable relationship it enjoys with the city of Toronto,



...create opportunities for young people to excel and capitalize on their talents, and help to build a healthier and more equitable society by making a difference in our global community.



The following video message from the University's President demonstrates U of T's abiding commitment to this mission.

President Meric Gertler Vignette.

*Note: To be played if the President is not presenting.