# Speaking Notes – U of T Entrepreneurship Powerpoint

## Introduction

**Slide 3:** (Table of Contents) NOTES FOR SPEAKER:

* Briefly outline the structure of the presentation and state the three main sections.
* Explain that the goal is to provide a comprehensive picture of Entrepreneurship at U of T and the overall ecosystem.
* State that U of T is a leader and this presentation will demonstrate why.

## Part 1: U of T’s Excellence

**CITY OF TORONTO**

**Slide 4**: U of T’s outstanding innovation ecosystem owes a lot to the city in which it’s located. Toronto is one of the world’s most liveable cities.

**Slide 5:** It’s considered the best economy for young people.

**Slide 6:** It’s North America’s fourth largest city.

**Slide 7**: And it’s widely considered the world’s most diverse city, with more than 140 languages spoken.]

**Slide 8**: [transition slide]

**Slide 9**: It is home to North America’s third largest information and communications technology cluster.

**Slide 10**: As well as North America’s third largest design industry . . . .

**Slide 11:** and second largest financial services hub, after New York.

**Slide 12**: It also ranks in the top 10 in the US & Canada Green City Index.

**Slide 13:** According to industry watchers, Toronto is also poised to become one of the leading technology startup hubs, thanks to its attractive combination of liveability and ease of doing business.

**U OF T RANKINGS**

**Slide 14:** 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.

**Slide 15:** 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.

**Slide 16:** 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.

**Slide 17:** In another important measure, U of T is ranked second in the world for the number of publications and citations in all science fields.

**Slide 18**: [rankings tables to back up Slide 16]

**Slide 19**: The National Taiwan University Ranking, which ranks universities according to the performance of scientific papers, places U of T at 4th in the world.

**Slide 20:** [rankings tables to back up Slide 18]

**Slide 21:** With our nine hospital partners U of T forms a clinical medicine powerhouse that ranks among the top three in the world.

**Slide 22**: [rankings tables to back up Slide 20]

## Part 2: Our Innovation Ecosystem

**Slide 23**: (Innovation Ecosystem Title Slide Intro) 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.

**Slide 24**: 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.*

**Slide 25:** U of T is also one of the top 20 universities in the world to be working with the world’s most innovative companies - the only Canadian university that made the top 20.

**INNOVATION ECOSYSTEM MODEL**

**Slide 26:** (Innovation Ecosystem Model Intro) Our innovation ecosystem has enormous depth and breadth, and this is what sets us apart from our competitors. With entrepreneurial hubs spread across three campuses, our ecosystem builds on a history of innovation that stretches back more than a hundred years. This is generating scores of ideas based on decades of pioneering research that frequently involves international collaborators.

**Research Section:**

**Slide 27:** (Innovation Ecosystem – Research Intro) It’s our research excellence that sets us apart from our peers, creating an environment that fosters personal and entrepreneurial success.

**Slide 27 (a):** Number two in the world for research output, second only to Harvard and ahead of MIT, Stanford and Johns Hopkins.

**Slide 28**: (Areas of Strength Intro) Our four key areas of innovation strength are: health, artificial intelligence, cleantech and information technology. NOTE to speaker: these differ from the University’s 10 areas of excellence.

**Slide 29**: We are particularly known for artificial intelligence and machine learning.

**Slide 30**: 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.

**Slide 31**: U of T graduates are some of the most sought after in the AI industry.

**Slide 32**:

* Geoffrey Hinton: Professor Emeritus – U of T, Chief Scientific Advisor – Vector Institute, Engineering Fellow – Google. A highly recognized world leader in AI and Machine Learning.
* Raquel Urtasun: Head – Uber ATG, Toronto, Co-founder – Vector Institute, Associate Professor – U of T, Canada Research Chair in Machine Learning and Computer Vision – U of T. Urtasun’s work on self-driving technology in general, and specifically with perception algorithms that help autonomous vehicles take better measure of their surroundings, have made her an influential figure in the growing self-driving space.

**Slide 33**: As mentioned, with our nine hospital partners U of T forms a clinical medicine powerhouse that ranks among the top three in the world.

**Slide 34**: on screen copy

**Slide 35**:

* Stephen Scherer: Director – The Centre for Applied Genomics, The Hospital for Sick Children, Director – McLaughlin Centre for Molecular Medicine, University of Toronto, Senior Scientist – The Hospital for Sick Children, Professor of Medicine – University of Toronto. His group has discovered numerous disease susceptibility genes and most recently has defined CNV and other genetic factors underlying autism.
* Molly Shoichet: Canada Research Chair in Tissue Engineering and University Professor of Chemical Engineering & Applied Chemistry, Chemistry and Biomaterials & Biomedical Engineering – U of T. She is an expert in the study of polymers for drug delivery and regeneration, which are materials that promote healing in the body. She founded two spin-off companies from research in her laboratory.

**Slide 36/37:** Our faculty and graduate students consistently produce high-impact research that is among the most highly cited in computer science and attracts attention far beyond the discipline.

**Slide 38**:

* Natalie Enright-Jerger: Professor in the Department of Electrical and Computer Engineering –University of Toronto. She was awarded a Sloan Research Fellowship for her vital work in finding more efficient ways for networks on computer processor chips to communicate.
* Joyce Poon: Professor, Electrical and Computer Engineering and Canada Research Chair in Integrated Photonic Devices – University of Toronto. She is developing faster, more energy-efficient ways to transmit data using optics or light signals. The most immediate application of this work is between servers in large computer facilities, but her breakthrough discoveries in optical switches and lasers have the potential to change the way computers are built.

**Slide 39/40**: 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.

**Slide 41**:

* Elizabeth Edwards: Professor of Chemical Engineering and Applied Chemistry and Canada Research Chair in Anaerobic Biotechnology – U of T. Director of the Biozone. Her research focuses on developing an understanding of how biological processes affect the fate of pollutants in the environment.
* Cynthia Goh: Professor at the Department of Chemistry, the Institute of Medical Science, the Munk School of Global Affairs, and Director of the Impact Centre – University of Toronto. She invented the technique of diffraction-based sensing, a highly sensitive approach for the detection of biomolecules with applications in medical diagnostics and in drug discovery.

**Learn Section:**

**Slide 42:** (Learn Intro) We provide entrepreneurial experiences for students that frequently lead to cutting-edge innovation. Our innovation ecosystem allows students to experience entrepreneurship in a mentored environment and provides inventive minds with the space to shape and test their ideas.

**Slide 43:** Approximately 60 percent of U of T students have a grade average of more than 85 percent. At other Ontario universities, only 50 percent of students have an 85 percent average.

**Slide 44:** These courses attract close to 12,000 registrants, many of them our own students.

**Slides 45 - 46**: on screen text

**Develop Section:**

**Slide 47**: (Develop Intro) Our innovation ecosystem has enormous depth and breadth, and this is what sets us apart.

**Slides 48 – 51**: on screen text

**Slide 52**: Our innovation ecosystem has hubs on all three of U of T’s campuses.

**Slide 53**: ICUBE is an example of one of our incubators.

**Commercialize Section:**

**Slide 54**: (Commercialize Intro) Thanks to our diverse and robust ecosystem and unique collaborative environment, we are the premier go-to place where innovators and investors can transform world-changing research into marketable products and services with social impact and economic benefit locally and globally.

**Slides 55 – 57**: on screen text

**Slides 58 - 61**: The Creative Destruction Lab is an example of one of U of T’s accelerators.

**Slide 62:** The CDL helped to get Nymi off the ground, which is today the proud creator of a wristband that uses your heartbeat as identification, doing away with the need for a password.

## Part 3: U of T Entrepreneurship

**Slide 65**: (U of T Entrepreneurship Intro) U of T Entrepreneurship is the front door and facilitator of U of T’s innovation ecosystem. We are located across the street from the vibrant MaRS Discovery District and some of North America’s top research hospitals. We provide our entrepreneurs and innovators with unique tools and services, training and education, resources and a positive collaborative environment to network, share ideas, and explore opportunities to unlock their full potential, and start, grow and scale businesses.

**Slide 66**: We’re really proud of our collaborative space, ONRamp!

**Slide 67-69**: on screen copy