

# Free Science\* Events



\*and applied-science



Please confirm the date and time of events prior to attending, as they sometimes change.

## Tuesday, October 1

### ***Lake Ontario Evening on Reptiles and Amphibians. Toronto and Region Remedial Action Plan***

Reptiles and amphibians are highly sensitive to changes in their environment as they depend on high quality habitat for their survival. Come out of your shell and learn about how turtles and frogs are faring under the urbanized conditions of the Toronto region, as well as the efforts underway to re-establish their populations.

Time & location: 6:00 - 9:00 pm  
Gladstone Hotel, 1214 Queen St W.  
Registration/  
more information: <https://www.eventbrite.ca/e/lake-ontario-evening-on-reptiles-and-amphibians-tickets-71053012473?aff=ebdssbdestsearch>

## Wednesday, October 2

### ***Bringing Space Down to Earth: Monitoring Industrial Greenhouse Gas Emissions with Small Satellites. School of the Environment, University of Toronto***

Industrial operators have several motivations for reducing their greenhouse gas emissions:

- Carbon pricing and other forms of government regulation drive operators to consider the legal and financial risks of their greenhouse gas emissions;
- Some greenhouse gases, such as methane, have significant health and safety implications;
- Some greenhouse gases, again such as methane, have monetizable economic value.

Market analysts are also interested in greenhouse gas emissions from industrial facilities. For example, data on emissions can be linked with production volumes. Some market analysts are even interested in establishing various “green indexes” for environmental performance, potentially affecting market pricing of public company shares. Speaker: Stéphane Germain founded GHGSat in 2011 to answer a market need for consistent, high quality measurements of greenhouse gas emissions from industrial facilities.

Time & location: 12:10 - 2:00 pm  
University College Building, Room UC 140, 15 King's College Circle  
Registration/  
more information: <https://www.environment.utoronto.ca/events/environment-seminar-bringing-space-down-to-earth-monitoring-industrial-greenhouse-gas-emissions-with-small-satellites/>

## Thursday, October 10

### ***How Did We Get Here? The Cosmos, Humanity, and the Unknown. The Universe Discovery Project at York University and RCI (Royal Canadian Institute) Science Canada***

An interactive panel discussion and Q&A on the Big Questions. The origins of the Earth, humans, and the cosmos will be explored with Dr. Paul Delaney, Dr. Kathryn Denning, and Dr. Mark Bayfield. The panel talk will be preceded and followed by a reception with free catered food and networking with professors, scientists, and students.

Time & location: 4:30 - 7:00 pm  
York University Second Student Centre, 15 Library Ln  
Registration/  
more information: <https://www.eventbrite.ca/e/how-did-we-get-here-the-cosmos-humanity-and-the-unknown-tickets-72647218787?aff=ebdssbdestsearch>

## Tuesday, October 15

### ***Decimal Lab Speaker Series: Aging and the Digital.* Decimal Lab, Ontario Tech University**

The goal of this fall's Speaker Series is to highlight the very different and often contradictory understandings of what it means to age with digital technology. Assumptions about aging often go unchallenged and are furthermore reinforced by innovations in technology that are designed on behalf of older adults. With a decided move away from the premise that aging is a problem to be fixed and/or managed by digital technology, the speakers pose a different set of questions, examining the sociocultural, practical and material implications and futures of aging with digital technology.

Time & location: 5:30 - 7:30 pm  
Centre for Social Innovation, 192 Spadina Avenue, Atrium  
Registration/  
more information: <https://www.eventbrite.ca/e/decimal-lab-speaker-series-aging-and-the-digital-tickets-68186213801?aff=ebdssbdestsearch>

## Tuesday- Wednesday, October 15- 16

### ***Distinguished Lecture Series in Statistical Sciences.* Fields Institute for Research in Mathematical Sciences**

Speaker: Michael I. Jordan is the Pehong Chen Distinguished Professor in the Department of Electrical Engineering and Computer Science and the Department of Statistics at the University of California, Berkeley. His research interests bridge the computational, statistical, cognitive and biological sciences.

Oct. 15: Inference Meets Computation: Dynamical, Stochastic and Economic Perspectives  
Oct. 16: On Gradient-Based Optimization: Accelerated, Stochastic and Nonconvex

Time & location: 3:30 - 4:30 pm  
The Fields Institute, 222 College Street, Room 230 - 2nd floor  
Registration/  
more Information: <https://www.eventbrite.ca/e/distinguished-lecture-series-in-statistical-sciences-michael-i-jordan-registration-58456975387>

## Thursday, October 17

### ***Technology Transfer and Intellectual Property Basics.* Sunnybrook Research Institute**

This event consists of two short lectures followed by a hands-on workshop. In the first lecture, speakers will discuss the technology transfer process in the Toronto area, and how the business of commercializing research to improve healthcare is structured to expedite discoveries to patients through the medical marketplace.

The second lecture and the hands-on workshop will cover intellectual property basics; specifically, patent applications and the practical strategies for obtaining strong and valuable patents. This session will provide an overview of the patent system, followed by practical strategies for working with your patent agent to develop a quality patent application.

Speakers: Steve Leonard, registered patent agent, Hill & Schumacher; Drishi Vilkh, Manager – Intellectual Property and Technology Transfer.

Time & location: 5:00 - 8:00 pm  
Sunnybrook Health Sciences Centre, 2075 Bayview Ave, Jenkin Auditorium (TB21)  
Registration/  
more information: <https://www.eventbrite.com/e/technology-transfer-intellectual-property-basics-tickets-71831687511?aff=ebdssbdestsearch>

## Saturday, October 19

### ***Get Your Garden Winter Ready.* Sheridan Nurseries**

Need to protect your garden or pond for winter? Sheridan Nurseries staff will teach you how to properly cover your pond, perennials, and trees from the seasonal elements.

Time & location: 1:00 - 2:00 pm  
2827 Yonge Street  
Registration: 416-622-8089  
For more information: [http://www.sheridannurseries.com/events/seminar/get\\_your\\_garden\\_winter\\_ready](http://www.sheridannurseries.com/events/seminar/get_your_garden_winter_ready)

## Wednesday, October 23

### **Introduction to Reinforcement Learning. WeCloudData**

Reinforcement learning (RL) is a branch of machine learning in which an agent interacts with an environment in order to maximize a specified reward. Industrial applications of reinforcement learning have so far been limited, but with recent advances in deep learning, data availability, and computing power, RL has begun to see success in the fields of autonomous vehicles, robotics, and others.

This presentation will focus on the mathematical foundations for two of the most widely used family of RL algorithms, Q-learning and policy gradients, and talk about advancements in the field that lead to the state of the art algorithms widely used today. Additionally, we will talk about considerations on how to apply RL to a problem. Lastly, we will discuss the limitations of RL, as well as how someone can get started today working on RL application and research.

Time & location: 6:30 - 8:30 pm  
WeCloudData, 80 Bloor St. West, Suite 500

For more information: <https://www.eventbrite.ca/e/introduction-to-reinforcement-learning-tickets-72272674515?aff=ebdssbdestsearch>

## Thursday, October 24

### **Medical Device & Digital Health Regulation. Sunnybrook Research Institute**

This workshop will focus on digital health regulation and will also include recently approved uses of artificial intelligence in medical devices. Reviewed will be where we have come in our thinking on the software side of medical devices, the current state, and possible next steps. The workshop will consist of a 1-hour lecture, followed by 2 exercises for discussion with attendees in the second hour. Speaker: Dr. Jayson Parker is an Associate Professor, teaching stream, in the Department of Biology and is cross-appointed to the Institute of Biomaterials and Biomaterial Engineering (IBBME), at the University of Toronto.

Time & location: 5:00 - 8:00 pm  
Sunnybrook Health Sciences Centre, 2075 Bayview, Lecture Theatre M6-502

Registration/  
more information: <https://www.eventbrite.com/e/medical-device-digital-health-regulation-tickets-71836369515?aff=ebdssbdestsearch>

## Weekly events

## Thursdays, October 3, 10, 17, 24, 31

### **North York Farmers' Market. Foodland Ontario**

The Thursday North York Farmers' Market is back at Mel Lastman Square in Toronto, providing locally grown market fresh fruit, vegetables, farm fresh produce, local honey, flowers, herbs, baked goods and preserves.

Time & location: 8:00 am - 2:00 pm  
Mel Lastman Square, 5100 Yonge Street

For more information: <https://www.northyorkfarmersmarket.ca/index.php>

For other locations in  
Toronto please visit: [https://www.blogto.com/eat\\_drink/2014/06/farmers\\_markets\\_in\\_toronto\\_by\\_day\\_of\\_the\\_week/](https://www.blogto.com/eat_drink/2014/06/farmers_markets_in_toronto_by_day_of_the_week/)

### **Forever Young Seniors. Unison Health and Community Services**

The program focuses on topics that promote healthy aging. If you are a senior over the age of 55 and live within the Lawrence Heights or nearby neighborhoods, you are welcome to join the weekly program. Free snacks and a nutritious lunch to program participants are provided. All activities are geared towards building self-esteem, social inclusion, budgeting and healthy eating to support independent aging at home, the overall well-being and quality of life for seniors living in the community.

Time & location: 10:00 am - 1:00 pm  
Unison Health and Community Services, 12 Flemington Road

For more information: Albana Qatipi, 416-787-1676, ext. 3256  
<http://unisonhcs.org/service/forever-young-seniors/>

**Mondays, October 7, 14, 21, 28**

**Prenatal Program. Unison Health and Community Services**

If you are expecting a baby, please join us for our weekly prenatal program.

- Connect with mothers and other women
- Learn about pregnancy, baby care and healthy eating
- Enjoy a healthy snack
- TTC tokens are available

Time & location: 1:00 - 3:00 pm

Unison Health and Community Services, 540 Finch Avenue W.

For more information: 416-787-1676 ext.3229

<http://unisonhcs.org/service/prenatal-program/>

**Various Days**

**Fridays, October 4, 18**

**Artificial Neural Network Applications in Health Industries. WIMTACH, Centennial College**

Join the Workshop of Artificial Neural Network Applications in Health Industries if you are interested in Artificial Intelligence.

Time & location: 9:00 am - 2:00 pm

941 Progress Avenue, Room D2-O4B

Registration required: <https://www.eventbrite.ca/e/artificial-neural-network-applications-in-health-industries-tickets-68176452605?aff=ebdssbdestsearch>

For more information: <https://wimtach.centennialcollege.ca/about/>

**Thursdays, October 10 & 24**

**Eating Well Throughout Cancer Treatment. UHN (University Health Network)**

This class is for all cancer diagnoses. Learn about the importance of good nutrition during treatment from a Princess Margaret oncology dietitian. Bring your nutrition questions to the class.

Time & location: 10:00 - 11:00 am

Princess Margaret Cancer Survivorship Centre, 610 University Ave  
2<sup>nd</sup> Floor, Room 2-631

Registration required: 416-946-4501, ext. 2363

For more information: <https://www.uhn.ca/Pages/eventdetails.aspx?itemid=PMCP-73.0.2019-10-10T14:00:00Z>

There are also free programs at the **Toronto Public Library**.



- Science & Technology programs: <http://www.tpl.ca/programs-and-classes/categories/science-technology.jsp>
- Health & Wellness programs: <http://www.tpl.ca/programs-and-classes/categories/health-wellness.jsp>

Or have a look at the **What's On** program guide, available in branches.



Also, connect with us online and get the latest library news, event listings and librarian expertise at the **North York Central Library blog**: <http://torontopubliclibrary.typepad.com/north-york-central-blog/>