



Information Session

Brief Overview

- For more information about this year's offerings Attend:
 - Overview of Training Opportunities in the School and "Beyond"
 - Instructed by Ramses van Zon.
- June 1 – June 19
- Over 40 courses delivered by experts in the field
- Topics including Advanced Research Computing (ARC), High Performance Computing (HPC), Research Data Management (RDM), and Research Software (RS).
- Introductory, intermediate and advanced level courses, there is something for everyone.

How do I Enrol in Courses?

1. Sign-up or Sign-in

Create a Compute Ontario Training Account or Log-in

2. Enrol in Courses

Select courses on the Summer School Landing page

Sign-up: Creating a Compute Ontario Training Account

1. Provide your email address

Step 1 of 3: Verify Your Email Address

Please enter your email address:

Verify Email

2. Open your email and select the first link: circled below

From: noreply@sharcnet.ca
Subject: Compute Ontario Training Create Account Request
Date: March 25, 2024 at 1:08:35 PM EDT
To:

To continue creating the Compute Ontario Training account click the following link:

- <https://training.computeontario.ca/createcotacct3.php?r=1c00186955da8c832bd1d6dd8734f1af11d214a8>

Sign-up: Creating a Compute Ontario Training Account

3. Provide your account information:

- Link in Email will lead to step 3

Step 3 of 3: Provide Account Information

Thank you for verifying your email. Please fill out the account information below:

First Name:

Last/Family Name:

Email:

Preferred Username: cot- (NOTE: This username is **not** guaranteed.)

Password:

Re-type Password:

Phone:

Institution:

Department:

City:

Country:

Language: ▼

Sign-In

Compute Ontario Training Login Page

Log in using your account credentials:

Username:

(NOTE: You cannot use your email address to log in.)

Password:

[Forgot Username?](#) :: [Forgot Password?](#)

Note:

You may have previously logged in with your CCDB account

If you would like to keep your account data when creating a Compute Ontario Training account, contact support@tech.alliancecan.ca with the subject "COSS 2026"

Don't forget to add 'cot-' to the beginning of your username.

Enrol in Courses

1. Select Link to Course underneath the course title on the Landing Page

:: Mon., June 1 ::
9:00 AM to 10:25 AM EDT



Overview of training opportunity in the School and beyond

:: Link to Course :: Expand description ::

Enrol in Courses

2. Select Enrol me

Overview of Training Opportunities in the School and "Beyond"

Enrolment options

[Overview of Training Opportunities in the School and "Beyond" →](#)



Description: Are you not sure which workshops to sign up for in this Summer School? In this session, we will give an overview of the program of the Compute Ontario Summer School to help you decide. We'll also show you what other training opportunity in Advanced Research Computing and Research Data Management are available for you in Canada after the summer school.

Teacher: Ramses van Zon (SciNet, University of Toronto)

Level: Introductory

Format: Webinar

Certificate: Attendance

Prerequisites: None

Self enrolment (Participant)

No enrolment key required.

[Enrol me](#)

How to Unenrol from a Course

Select "[Unenrol me from this course](#)" found in the More menu on each course page

Overview of Training Opportunities in the School and "Beyond"

Course

Grades

Activities

Competencies

More ▾

You are enrolled in the course.

Unenrol me from this course



Confirm

Do you really want to unenrol yourself from course "Overview of Training Opportunities in the School and "Beyond"?"

Cancel

Continue

Schedule Notes

- All Course times are listed in EDT
- Some courses overlap so look closely at dates and times
- Please unenrol from courses that you find you are unable to attend so others can enrol (you can re-enrol later)

The link to the [frequently asked questions \(FAQ page\)](#) can be found on the landing page under registration

Course Descriptions

- Abstract
- Teacher
- Level (Introductory, Intermediate, Advanced)
- Format (workshop, Lecture + hands-on, webinar, Lecture, Panel)
- Certificate (attendance or Completion)
- Pre-requisites (e.g. experience with a programming language)

Resources for practical activities:

- Laptop
- Magic Castle
- Course specific (check the course main page)

Important Links

[Landing Page/Schedule/Enrolment](#)

[Create An Account](#)

[Log-in](#)

[Frequently asked questions \(FAQ's\)](#)

Contacts

Compute Ontario Training
Coordinator: Ann Allan

ann.allan@computeontario.ca

OR

support@tech.alliancecan.ca
with the subject "COSS 2026"

Content Overview

- Some courses overlap
- Please check the schedule carefully, you cannot attend two courses simultaneously

Unofficial Subject Streams

- High-Performance Computing (HPC) and Overview
- Research Data Management
- Artificial Intelligence and Machine Learning
- Bioinformatics
- Neuroanalytics
- Programming languages and Tools
- Parallel Programming
- Software Tools and Infrastructure
- Security

General High Performance Computing (HPC) and Overview

:: Mon., June 1 ::
09:00 to 10:25 EDT



Overview of training opportunity in the School and beyond

:: [Link to Course](#) :: [Expand description](#) ::

:: Tue., June 2 ::
09:00 to 12:00 EDT



Introduction to Advanced Research Computing

:: [Link to Course](#) :: [Expand description](#) ::

:: Fri., June 12 ::
09:00 to 12:00 EDT
13:30 to 16:30 EDT



Scaling Up HPC Workflows

:: [Link to Course](#) :: [Expand description](#) ::

:: Thu., June 11 ::
9:00 AM to 12:00 PM EDT



From Raw Data to Results: No Terminal Required with UseGalaxy.ca!

:: [Link to Course](#) :: [Expand description](#) ::

Research Data Management

:: Mon., June 8 ::
13:30 to 16:30 EDT



Reproducible Research: Practices and Tools

:: [Link to Course](#) :: [Expand description](#) ::

:: Tue., June 9 ::
09:00 to 10:25 EDT



From Policy to Practice: Preparing for the Data Deposit Requirement of the Tri-Agency RDM Policy

:: [Link to Course](#) :: [Expand description](#) ::

:: Tue., June 9 ::
10:35 to 12:00 EDT



REBs & DRI

:: [Link to Course](#) :: [Expand description](#) ::

:: Tue., June 9 ::
13:30 to 14:55 EDT



Indigenous Data Sovereignty in practice: The Supporting Indigenous Language Revitalization (SILR) Caretaking Directives

:: [Link to Course](#) :: [Expand description](#) ::

:: Tue., June 9 ::
3:05 PM to 4:30 PM EDT



Introduction to Alliance RDM Services

:: [Link to Course](#) :: [Expand description](#) ::

Research Data Management

:: Wed., June 10 ::
9:00 AM to 10:25 AM EDT



Introduction to Data Curation and Deposit

[:: Link to Course ::](#) [Expand description ::](#)

:: Wed., June 10 ::
10:35 AM to 12:00 PM EDT



Using Odesi & Scholars GeoPortal for research data discovery, exploration, and reuse

[:: Link to Course ::](#) [Expand description ::](#)

:: Thu., June 11 ::
3:05 PM to 4:30 PM EDT



Introduction to data deposit and sharing in Borealis, the Canadian Dataverse Repository

[:: Link to Course ::](#) [Expand description ::](#)

:: Wed., June 17 ::
1:30 PM to 2:55 PM EDT



TDM at the University of Toronto Libraries: Services and Platforms

[:: Link to Course ::](#) [Expand description ::](#)

:: Wed., June 17 ::
3:05 PM to 4:30 PM EDT



Exploring the intersection of AI, Copyright, and RDM in the Canadian Context

[:: Link to Course ::](#) [Expand description ::](#)

Artificial Intelligence And Machine Learning

:: Mon., June 1 ::
1:30 PM to 4:30 PM EDT



AI Showcase

:: [Link to Course](#) :: [Expand description](#) ::

:: Tue., June 2 ::
1:30 PM to 4:30 PM EDT



Profiling AI Software with Pytorch Profiler + Nsight Systems

This course is full.

:: [Link to Course](#) :: [Expand description](#) ::

:: Mon., June 8 ::
3:05 PM to 4:30 PM EDT



Leveraging Large Language Models for Academic Research: Opportunities, Workflows, and Responsible Use

:: [Link to Course](#) :: [Expand description](#) ::

:: Mon., June 8 ::
10:35 AM to 12:00 PM EDT



Extracting Information from Health Data using AI

:: [Link to Course](#) :: [Expand description](#) ::

Artificial Intelligence And Machine Learning

:: Wed., June 10 ::

1:30 PM to 4:30 PM EDT



Text Mining in the Context of LLMs

:: [Link to Course](#) :: [Expand description](#) ::

:: Mon., June 15 ::

9:00 AM to 12:00 PM EDT

1:30 PM to 4:30 PM EDT



Machine learning

:: [Link to Course](#) :: [Expand description](#) ::

:: Fri., June 19 ::

9:00 AM to 12:00 PM EDT



Data Preparation for Machine Learning

:: [Link to Course](#) :: [Expand description](#) ::

Bioinformatics

:: Mon., June 1 ::

9:00 AM to 12:00 PM EDT



Bioinformatics: Analysis of RNA-sequencing Data

:: [Link to Course](#) :: [Expand description](#) ::

:: Mon., June 1 ::

1:30 PM to 4:30 PM EDT



Bioinformatics: Long-read Sequencing Applications

:: [Link to Course](#) :: [Expand description](#) ::

:: Tue., June 2 ::

9:00 AM to 12:00 PM EDT

1:30 PM to 4:30 PM EDT



Introduction to Single cell RNA sequencing and analysis

:: [Link to Course](#) :: [Expand description](#) ::

:: Wed., June 3 ::

10:35 AM to 12:00 PM EDT



High Performance Rapid Prototyping in Biological Sequence Analysis

:: [Link to Course](#) :: [Expand description](#) ::

:: Wed., June 3 ::

1:30 PM to 4:30 PM EDT



Bioinformatics for Pathway Enrichment Analysis

:: [Link to Course](#) :: [Expand description](#) ::

:: Fri., June 5 ::

9:00 AM to 10:25 AM EDT



Population genomics in complex agricultural crops: comparing SNP panels and GBS workflows

:: [Link to Course](#) :: [Expand description](#) ::

Neuroanalytics

:: Tue., June 16 ::

9:00 AM to 12:00 PM EDT

1:30 PM to 4:30 PM EDT

:: Wed., June 17 ::

9:00 AM to 12:00 PM EDT



Introduction to Neural Network Programming

:: [Link to Course](#) :: [Expand description](#) ::

Programming Languages and Tools

:: Wed., June 3 ::

9:00 AM to 10:25 AM EDT



Introduction of R Shiny

:: [Link to Course](#) :: [Expand description](#) ::

:: Wed., June 3 ::

9:00 AM to 12:00 PM EDT
1:30 PM to 4:30 PM EDT



Introduction to Python

:: [Link to Course](#) :: [Expand description](#) ::

:: Thu., June 4 ::

9:00 AM to 12:00 PM EDT
1:30 PM to 4:30 PM EDT



Fortran as a Second Language

:: [Link to Course](#) :: [Expand description](#) ::

:: Fri., June 5 ::

1:30 PM to 4:30 PM EDT



Introduction to R

:: [Link to Course](#) :: [Expand description](#) ::

:: Tue., June 9 ::

9:00 AM to 12:00 PM EDT
1:30 PM to 4:30 PM EDT



C as a Second Language

:: [Link to Course](#) :: [Expand description](#) ::

Programming Languages and Tools

:: Thu., June 11 ::

9:00 AM to 12:00 PM EDT

1:30 PM to 4:30 PM EDT



High Performance Computing in Python

:: [Link to Course](#) :: [Expand description](#) ::

:: Fri., June 12 ::

9:00 AM to 12:00 PM EDT



Incorporating Other Languages into Python

:: [Link to Course](#) :: [Expand description](#) ::

:: Mon., June 15 ::

9:00 AM to 12:00 PM EDT

1:30 PM to 4:30 PM EDT



C++26 and HPC

:: [Link to Course](#) :: [Expand description](#) ::

:: Tue., June 16 ::

9:00 AM to 12:00 PM EDT

1:30 PM to 4:30 PM EDT

:: Wed., June 17 ::

9:00 AM to 12:00 PM EDT

1:30 PM to 4:30 PM EDT



Introduction to Julia

:: [Link to Course](#) :: [Expand description](#) ::

:: Thu., June 18 ::

9:00 AM to 12:00 PM EDT

1:30 PM to 4:30 PM EDT

Parallel Programming

:: Fri., June 5 ::

9:00 AM to 12:00 PM EDT

1:30 PM to 4:30 PM EDT



Multicore Parallel Programming with OpenMP

:: [Link to Course](#) :: [Expand description](#) ::

:: Wed., June 10 ::

1:30 PM to 4:30 PM EDT



DASK

:: [Link to Course](#) :: [Expand description](#) ::

:: Wed., June 17 ::

9:00 AM to 12:00 PM EDT

1:30 PM to 4:30 PM EDT

:: Thu., June 18 ::

9:00 AM to 12:00 PM EDT

1:30 PM to 4:30 PM EDT



Programming GPUs with CUDA

:: [Link to Course](#) :: [Expand description](#) ::

:: Fri., June 19 ::

9:00 AM to 12:00 PM EDT

1:30 PM to 4:30 PM EDT

Software Tools and Infrastructure

:: Mon., June 1 ::
10:35 AM to 12:00 PM EDT



Interactive Computing with Open OnDemand

:: [Link to Course](#) :: [Expand description](#) ::

:: Thu., June 4 ::
9:00 AM to 12:00 PM EDT
1:30 PM to 4:30 PM EDT



Introduction to Linux shell

:: [Link to Course](#) :: [Expand description](#) ::

:: Mon., June 8 ::
9:00 AM to 12:00 PM EDT



An Introduction to OpenFoam

:: [Link to Course](#) :: [Expand description](#) ::

:: Wed., June 10 ::
9:00 AM to 12:00 PM EDT



Introduction to Version control (Git)

:: [Link to Course](#) :: [Expand description](#) ::

:: Thu., June 18 ::
9:00 AM to 12:00 PM EDT
1:30 PM to 4:30 PM EDT



Scientific Visualization with ParaView

:: [Link to Course](#) :: [Expand description](#) ::

:: Fri., June 19 ::
9:00 AM to 12:00 PM EDT
1:30 PM to 4:30 PM EDT



Using Aptainer Containers

:: [Link to Course](#) :: [Expand description](#) ::

Security

:: Mon., June 8 ::
9:00 AM to 10:25 AM EDT



System Security - Defensive Techniques

[:: Link to Course ::](#) [Expand description](#) ::

:: Mon., June 8 ::
1:30 PM to 2:55 PM EDT



Data security

[:: Link to Course ::](#) [Expand description](#) ::

Important Links

[Landing Page/Schedule/Enrolment](#)

[Create An Account](#)

[Log-in](#)

[Frequently asked questions \(FAQ's\)](#)

Contacts

Compute Ontario Training
Coordinator: Ann Allan

ann.allan@computeontario.ca

OR

support@tech.alliancecan.ca
with the subject "COSS 2026"