

SCIENTIFIC COMPUTING TRAINING SERIES

Sponsored by

**Cornell University's Center for Advanced Computing and
Weill Cornell Medicine Scientific Computing, ITS, &
Clinical and Translational Science Center**

Open to all workforce members and students of Cornell University, WCM, WCM-Q, and Cornell Tech

FALL 2026

**SEPT 16
9-10 AM**

Introduction to Python

Instructor: Chris Myers, CAC

Introduction to the Python programming language and its software ecosystem for data analysis, simulation, and scientific computing across a wide variety of application areas.

**SEPT 30
9-10 AM**

Running and Building of Apptainer Containers

Instructor: Ben Trumbore, CAC

This talk covers container basics and terminology before exploring Apptainer software, image retrieval, execution, and workflow management. It concludes with demonstrations on modifying and building containers from scratch.

**OCT 14
9-10 AM**

GPUs: Parallelism, Performance, and Profiling

Instructor: Steve Lantz, CAC

In GPU computing, performance depends on parallelism. This session introduces parallel computing concepts and NVIDIA GPU hardware, then gives an overview of two ways of expressing GPU parallelism in compiled code: CUDA and OpenMP. Python-based methods are also discussed, and techniques for profiling codes of all types are presented.

**NOV 10, 11, 17, 18
9-12 PM**

Computational Methods for Spatial Transcriptomics

Instructor: Dr. Luigi Marchionni, WCM

Practical and methodological introduction to analyzing spatial transcriptomics data, with an emphasis on Visium HD and Xenium workflow.



**Scan code for webinar descriptions, prerequisites, and
registration links or visit**

<https://its.weill.cornell.edu/scientific-computing-training-series>



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