**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

---

**SPRING 2023**

**MARCH 21**

12:15 PM

**Python for Digital Humanities and Social Science**  
*Instructor Christopher Cameron*

Overview of Python, and how this free and open-source programming language supports digital humanities and social science research.  
Register via [Zoom](#)

**MARCH 28**

9 AM

**Creating the Best Visualizations for your Data**  
*Instructor Ben Trumbore*

Introduction to choosing the best type of chart to use for the data you have and the message you want to convey.  
Register via [Zoom](#)

**APRIL 11**

9 AM

**Revision Control with Git**  
*Instructor Steve Lantz*

Introduction to Git and how to use it effectively in conjunction with a repository hosting service like GitHub.  
Register via [Zoom](#)

**APRIL 25**

9 AM

**Python for Data Visualization**  
*Instructor Chris Myers*

Examination of some of the Python packages that support data visualization for various use cases.  
Register via [Zoom](#)

**MAY 2**

12:15 PM

**Research Project Software Continuity**  
*Instructor Adam Brazier*

Exploration of ideas, based on experience of research software at various scales, to suit different situations in which researchers develop software.  
Register via [Zoom](#)
SPRING 2023 CONTINUED

MAY 9
9 AM
Working with Excel Files in Python and C#
Instructor Ben Trumbore
Introduction to working with Excel spreadsheets from within computer programs and scripts.
Register via Zoom

MAY 23
9 AM
Case Study - Scripting ImageJ and PowerPoint with Python
Instructor Christopher Cameron
How to use Python to process multichannel confocal microscopy images with ImageJ, and then organize the output into PowerPoint slides.
Register via Zoom

JUNE 6
9 AM
Using the Whole Processor
Instructor Steve Lantz
Describes parallel computing capabilities found within single processors, and how applications access them through multithreading and vectorization.
Register via Zoom

JUNE 20
9 AM
Using Relational Databases for Research
Instructor Adam Brazier
Introduction to the use of relational (SQL) databases, with a brief overview of database structure, SQL queries, best practices, and development tools.
Register via Zoom

For full course descriptions and prerequisites visit:
https://its.weill.cornell.edu/scientific-computing-training-series