



## RESEARCH COMPUTING FUNDAMENTALS

- ★ **BIG DATA, EASY ACCESS: EXPLORING PRINCETON'S CLUSTERS FOR THE SOCIAL SCIENCES AND HUMANITIES**  
**FEBRUARY 12 | 4:30-6:00 PM**  
Mattie Niznik, Research Software & Programming Analyst
- ★ **INTRODUCTION TO THE LINUX COMMAND LINE (PARTS 1 & 2)**  
**FEBRUARY 13 AND 14 | 3:00-4:30 PM**  
Galen Collier, Director of Researcher Engagement
- COMMAND-LINE POWER TOOLS**  
**FEBRUARY 15 | 3:00-4:30 PM**  
Galen Collier, Director of Researcher Engagement
- FROM CONSOLE TO CLUSTERS: MASTERING SLURM, DATA STRATEGIES, AND HIGH-PERFORMANCE COMPUTING AT PRINCETON (PARTS 1 & 2)**  
**FEBRUARY 19 AND 20 | 4:30-6:00 PM**  
Mattie Niznik, Research Software & Programming Analyst
- REMOVING THE TEDIUM FROM YOUR RESEARCH WORKFLOW**  
**FEBRUARY 21 | 4:30-6:00 PM**  
Jonathan Halverson, Research Software and Computing Training Lead
- HOW TO COMPILE AND INSTALL OPEN-SOURCE SOFTWARE YOURSELF**  
**MARCH 26 | 4:30-6:00 PM**  
Prentice Bisbal, Senior HPC Engineer, PPPL

## PYTHON PROGRAMMING

- ★ **INTRODUCTION TO PROGRAMMING USING PYTHON (PARTS 1, 2 & 3)**  
**FEBRUARY 22, 26-27 | 4:30-6:00 PM**  
Matthew Cahn, Sr. Research Systems Analyst
- ★ **PYTHON CODE CLEANUP: TACKLE THESE 10 COMMON ISSUES**  
**MARCH 5 | 4:30-6:00 PM**  
Troy Comi, Sr. Research Software Engineer
- PRINCETONPY: PYTHON USER GROUP**  
**MARCH AND APRIL MEETINGS | 12:00-1:00 PM**  
Join your fellow Python enthusiasts  
<https://researchcomputing.princeton.edu/learn/user-groups>



## VISUALIZATION AND GEOGRAPHIC INFORMATION SYSTEMS

- GEOGRAPHIC INFORMATION SYSTEMS (GIS) WORKSHOPS ON QGIS AND ARCGIS PRO**  
**FEBRUARY 5-MARCH 21**  
William Guthe, Sr. Geographical Information Systems Visualization Analyst  
Wangyal Shawa, Geographic Information Systems Librarian  
Register at <https://library.princeton.edu/collections/pumagic/workshops>
- DATA VISUALIZATION IN PYTHON**  
**MARCH 21 | 4:30-6:00 PM**  
Michal Grzadkowski, Senior Research Software Engineer
- VISUALIZATION WITH VisIt**  
**APRIL 5 | 2:00-3:30 PM**  
Eliot Feibush, Visualization Scientist

- ♥ Workshop is part of Love Data Week
- ★ Workshop is appropriate for undergraduates and above

## MACHINE LEARNING

- ★ **GETTING STARTED WITH MACHINE LEARNING IN PYTHON**  
**FEBRUARY 28 | 4:30-6:00 PM**  
Julian Gold, DataX Data Scientist, CSML
- ★ **GETTING STARTED WITH DEEP LEARNING USING PYTORCH**  
**MARCH 6 | 4:30-6:00 PM**  
David Turner, Sr. Research Software Engineer
- REINFORCEMENT LEARNING FROM HUMAN FEEDBACK WITH HUGGING FACE**  
**MARCH 7 | 4:30-6:00 PM**  
Costa Huang, Machine Learning Engineer, Hugging Face
- A.I. TOOLS FOR YOUR RESEARCH WITH GOOGLE CLOUD PLATFORM**  
**MARCH 11 | 10:00 AM-12:00 PM**  
Stay for lunch with Google staff at 12:00-1:00 PM
- WELCOME TO THE NEURAL NETWORK ZOO: A SURVEY OF ARCHITECTURES FOR YOUR RESEARCH**  
**MARCH 25 | 4:30-6:00 PM**  
Gage DeZoort, Postdoctoral Research Associate and Lecturer, Physics



## ACCELERATED COMPUTING

- ★ **GPU USER GROUP KICKOFF MEETING**  
**FEBRUARY 23 | 3:00-4:00 PM**  
PICSciE/RC STAFF
- ★ **INTRODUCTION TO GPU COMPUTING**  
**FEBRUARY 26 | 4:30-6:00 PM**  
Jonathan Halverson, Research Software and Computing Training Lead
- KOKKOS: A PARALLEL, PORTABLE PROGRAMMING MODEL FOR CPUs AND GPUs**  
**FEBRUARY 27 | 4:30-6:00 PM**  
Rohit Kakodkar, Research Software Engineer II
- INTRODUCTION TO ACCELERATED GENOMIC ANALYSIS**  
**MARCH 12 | 3:00-4:00 PM**  
Huiwen Ju, Solutions Architect, NVIDIA
- HIGH-PERFORMANCE PYTHON FOR GPUs**  
**MARCH 19 | 4:30-6:00 PM**  
Henry Schreiner, Computational Physicist and Lecturer



## WORKING WITH DATA

- ♥ **INTRODUCTION TO DATA ANALYSIS USING R**  
**FEBRUARY 14 | 10:00 AM-12:00 PM**  
Oscar Torres-Reyna, Manager, Statistical Services, Economics
- ★ **INTRODUCTION TO DATA ANALYSIS USING PYTHON**  
**FEBRUARY 21 | 10:00 AM-12:00 PM**  
Oscar Torres-Reyna, Manager, Statistical Services, Economics
- WORKING WITH RESTRICTED DATASETS AT PRINCETON: SECURE RESEARCH WITH CITADEL**  
**FEBRUARY 27 | 11:00 AM-12:00 PM**  
Irene Kopaliani, Cloud Architect  
Ryan Fedon, Linux Systems Administrator

### PRINCETON 2024 GPU HACKATHON

**GPU User Group Kickoff Meeting: February 23 | 3:00-4:00 PM**  
**Introduction to GPU Computing: February 26 | 4:30-6:00 PM**  
**Application Deadline: March 26**  
**Hackathon: May 28, June 4, 12-14**