"CSI Chicago" workshops are back for Fall 2018

Galter Library, NUIT Research Computing and NUCATS are bringing back Computational Skills for Informatics ("CSI").

Sessions will be held on **Tuesdays, 11:30am - 1:00pm**.
- Sessions are available to individuals with valid Northwestern identification only
- Sessions will be approximately 1.5 hours long, depending on the topic
- Sessions will be held in the Weinberg 731 computer classroom (Searle Building)
- Space will be limited, register using the links below each class description
- Users should bring their own computers for hands-on sessions

**Topics and Instructors**

**Introduction to the Command Line / Bash** - Tuesday, Oct 16, 2018, 11:30am - 1:00pm

Location: Weinberg computer classroom 731, Searle Building
Instructor: Pamela Shaw, Biosciences & Bioinformatics Librarian

The shell is a useful operating system to most researchers who are doing any type of programming. The Unix shell is powerful and often the fastest and most direct way to work with files, folders, executing programs, etc. Also, most programmers operate in this OS, due to the simplicity and control over the system. In this tutorial, you will be introduced to the command line and learn basic commands.

Open to members of the Northwestern community only.
This is a hands-on session.
Users should bring their own laptops for this session.

- Mac users do not need to install any software. You will use the Terminal on your Mac
- Windows users can install GitBash in the Git SCM package from [http://gitforwindows.org/](http://gitforwindows.org/)
- If you're a Windows 10 user, you can follow the instructions found [here](http://gitforwindows.org/)

Register [here](http://gitforwindows.org/)

**Introduction to High Performance Computing on Quest** - Tuesday, Oct 23, 2018, 11:30am - 1:00pm

Location: Weinberg computer classroom 731, Searle Building
Instructor: **Janna Nugent**, Sr. Bioinformatics Specialist, Research Computing Services, NUIT

An overview of the University's High Performance Computing System, including Quest's system architectural design principles, user support infrastructure, resource allocation request requirements, and usage policies. Users are encouraged to bring their laptops for a hands-on demonstration of sample tools and workflows in Quest.
Open to members of the Northwestern community only.
This is a hands-on session.
Users should bring their own computers for this session.
You should have a secure shell environment installed on your computer. We will provide instructions on installing the secure shell in advance of the session.

Register here

Research Data: Best Practices to Manage, Preserve and Share it - Tuesday Oct 30, 2018
Location: Weinberg computer classroom 731, Searle Building
Instructors: Sara Gonzales, Data Librarian, Galter Health Sciences Library
Cunera Buys, Data Management Librarian, Mudd Library, Evanston

Funder and journal requirements for access to data and the reproducibility crisis have raised data management concerns among researchers. Northwestern offers tools and resources to assist researchers to manage and preserve data both for their own use, and for potential re-use by others. In this session, you will learn best practices for data organization, file naming, archiving and sharing data, and creating data management plans.

Open to members of the Northwestern community only.
This session is a demonstration. Attendees do not need to bring computers.

Register here

Globus for Research Data Management - Tuesday Nov 6, 2018
Location: Weinberg computer classroom 731, Searle Building
Instructor: Greg Nawrocki, Globus, University of Chicago

Attendees will learn about the Globus data/file management system. Greg Nawrocki of Globus will do an intro, show the web interface and how to share data and set up groups. Then he will dive down into a bit of data automation with the CLI and even touch on the transfer API and how it can be used in Jupyter hub.

Open to members of the Northwestern community only.
This session is a demonstration. Attendees do not need to bring computers.

Register here

Introduction to RNA-Seq Analysis on Quest - Tuesday Nov 13, 2018
Location: Weinberg computer classroom 731, Searle Building
Instructors: Janna Nugent, Sr. Bioinformatics Specialist, Research Computing Services, NUIT
Yoonie Joo, Department of Preventive Medicine, Division of Health and Biomedical Informatics

This workshop will demonstrate a typical RNA-seq pipeline on Quest. Users will learn what packages are available on Quest for RNA-seq analysis, how to set up the pipeline, and how to access files produced from the analysis.

Open to members of the Northwestern community only.
This is a hands-on session.
Users should bring their own computers for this session.

Prerequisite: It is recommended that you are a current Quest user or have attended an introduction to Quest session.

Register here