## Upcoming HPC Classes

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### Introduction to Unix/Linux and the shell

**Date:** Thursday, January 25, 2018  
**Time:** 2:00pm - 4:00pm  
**Presenter:** Santhosh Konda  
**Location:** Bobst Library, Rm. 617, 6th Floor  
**Libraries:** Bobst Library

A hands-on introduction to using the Unix command line interface. Aimed at HPC users with little to no Linux experience. We'll cover sessions 1 and 2 of the "Introduction to Unix/Linux and the HPC environment at NYU" tutorial on the NYU HPC Wiki. The tutorial is available online at [https://wikis.nyu.edu/pages/viewpage.action?pageId=53859101](https://wikis.nyu.edu/pages/viewpage.action?pageId=53859101)

Most of the activities in this tutorial can be completed without an NYU HPC account, but you will get more out of this class if you are already an NYU HPC user. You can apply for an account at [https://wikis.nyu.edu/display/NYUHPC/High+Performance+Computing+at+NYU (see "Getting and Renewing Access")](https://wikis.nyu.edu/display/NYUHPC/High+Performance+Computing+at+NYU (see "Getting and Renewing Access"))

### Using Slurm on Prince cluster

**Date:** Monday, January 29, 2018  
**Time:** 2:00pm - 4:00pm  
**Presenter:** Wensheng Deng  
**Location:** Bobst Library, Rm. 617, 6th Floor  
**Libraries:** Bobst Library

A hands-on introduction to using the Slurm. Aimed at HPC users with knowledge of Linux.

### High Performance Computing at NYU

**Date:** Tuesday, January 30, 2018  
**Time:** 3:00pm - 4:00pm  
**Presenter:** Eric Peskin, Ph.D.  
**Location:** Dibner Library, LC 433  
**Libraries:** Bern Dibner Library

**NYU High Performance Computing (HPC)** operates and supports high-performance computing resources and assists the NYU research community in their use. HPC resources are open to NYU faculty, staff, and faculty-sponsored students, and they may be used for class instruction.

This workshop will cover what High-Performance Computing (HPC) is and why and how it can be useful. We will discuss how HPC can help researchers, faculty teaching courses, and their students. We will describe the resources available at NYU, and how to get started.

For more information: [NYU HPC](https://wikis.nyu.edu/display/NYUHPC/High+Performance+Computing+at+NYU (see "Getting and Renewing Access"))

### Big Data Tutorial 1: MapReduce

**Date:** Thursday, February 1, 2018  
**Time:** 2:00pm - 4:00pm  
**Presenter:** Santhosh Konda  
**Location:** Bobst Library, Rm. 617, 6th Floor  
**Libraries:** Bobst Library

This class will provide a brief overview of what Hadoop is and the various components that are involved in the Hadoop ecosystem. There will be a hands-on showcase for the users on how to use the dumbo(Hadoop) cluster to run basic map-reduce jobs. Various hands on exercises have been incorporated for the users to get a better understanding.

**Class Materials**

*The pre-requisites of this class:*
1. HPC user account is mandatory.
2. The user needs to have a basic knowledge of Unix and Java/python.

**Introduction to Unix/Linux and the shell**  
**Date:** Tuesday, February 6, 2018  
**Time:** 3:00pm - 5:00pm  
**Presenter:** Santhosh Konda  
**Location:** Dibner Library, LC 433  
**Libraries:** Bern Dibner Library  

A hands-on introduction to using the Unix command line interface. Aimed at HPC users with little to no Linux experience. We'll cover sessions 1 and 2 of the "Introduction to Unix/Linux and the HPC environment at NYU” tutorial on the NYU HPC Wiki. The tutorial is available online at [https://wikis.nyu.edu/pages/viewpage.action?pageId=53859101](https://wikis.nyu.edu/pages/viewpage.action?pageId=53859101)

Most of the activities in this tutorial can be completed without an NYU HPC account, but you will get more out of this class if you are already an NYU HPC user. You can apply for an account at [https://wikis.nyu.edu/display/NYUHPC/High+Performance+Computing+at+NYU (see "Getting and Renewing Access")](https://wikis.nyu.edu/display/NYUHPC/High+Performance+Computing+at+NYU)

**Please bring a laptop to this session**

**Big Data Tutorial 2: Using Hive**  
**Date:** Wednesday, February 7, 2018  
**Time:** 2:00pm - 4:00pm  
**Presenter:** Santhosh Konda  
**Location:** Bobst Library, Rm. 617, 6th Floor  
**Libraries:** Bobst Library  

This tutorial provides a basic understanding of Apache Hive and its usage in the Hadoop eco-system. There will be hands-on examples on how to use Apache Hive and a step by step instructional on how to run Hive jobs using NYU's Dumbo (Hadoop) Cluster.

**Class Materials**

*The pre-requisites of this class:*

1. HPC user account is mandatory.  
2. Experience using SQL

**Big Data Tutorial 3: Intro to Spark**  
**Date:** Tuesday, February 13, 2018  
**Time:** 2:00pm - 4:00pm  
**Presenter:** Santhosh Konda  
**Location:** Bobst Library, Rm. 619, 6th Floor  
**Libraries:** Bobst Library  

This tutorial provides a basic understanding of Apache Spark and its usage in the Hadoop eco-system. There will be hands-on examples on how to use Apache Spark and a step by step instructional on how to run Spark jobs using NYU's Dumbo (Hadoop) Cluster.

**Class Materials**

*The pre-requisites of this class:*

1. NYU HPC user account is mandatory.  
2. Experience using Scala/Java.
A hands-on introduction to using the Unix command line interface. Aimed at HPC users with little to no Linux experience. We'll cover sessions 1 and 2 of the "Introduction to Unix/Linux and the HPC environment at NYU" tutorial on the NYU HPC Wiki. The tutorial is available online at https://wikis.nyu.edu/pages/viewpage.action?pageId=53859101

Most of the activities in this tutorial can be completed without an NYU HPC account, but you will get more out of this class if you are already an NYU HPC user. You can apply for an account at https://wikis.nyu.edu/display/NYUHPC/High+Performance+Computing+at+NYU (see "Getting and Renewing Access")

MATLAB: Beyond Basics
Date: Thursday, February 22, 2018
Time: 1:00pm - 2:30pm
Presenter: Denis Rubin
Location: Bobst Library, Rm. 617, 6th Floor
Libraries: Bobst Library

This tutorial is designed for users who have about a year or two of experience with MATLAB and interested in learning to write more efficient MATLAB code.

For an overview of class materials please visit this page.

Using Slurm on Prince cluster
Date: Tuesday, February 27, 2018
Time: 2:00pm - 4:00pm
Presenter: Wensheng Deng
Location: Bobst Library, Rm. 617, 6th Floor
Libraries: Bobst Library

A hands-on introduction to using the Slurm. Aimed at HPC users with knowledge of Linux.

Class materials