# Upcoming HPC Classes

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Big Data Tutorial 3: Intro to Spark
Date: Monday, March 19, 2018
Time: 2:00pm - 4:00pm
Presenter: Wensheng Deng
Location: Bobst Library, Rm. 617, 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.

Introduction to Unix/Linux and the shell
Date: Wednesday, March 21, 2018
Time: 2:00pm - 4:00pm
Presenter: Eugene Dedits, Wensheng Deng
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

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")

Using Slurm on Prince cluster
Date: Friday, March 23, 2018
Time: 2:00pm - 4:00pm
Presenter: Wensheng Deng, Eugene Dedits
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.

Big Data Tutorial 2: Using Hive
Date: Tuesday, March 27, 2018
Time: 2:00pm - 4:00pm
Presenter: Tatiana Polunina
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 1: MapReduce
Date: Friday, March 30, 2018
Time: 1:30pm - 3:30pm
Presenter: Tatiana Polunina
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: Wednesday, April 4, 2018
Time: 2:00pm - 4:00pm
Presenter: Eugene Dedits, Wensheng Deng
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

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")

Using Slurm on Prince cluster
Date: Friday, April 6, 2018
Time: 2:00pm - 4:00pm
Presenter: Wensheng Deng, Eugene Dedits
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

MATLAB: Beyond Basics
Date: Tuesday, April 10, 2018
Time: 12:30pm - 2:00pm
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.
Big Data Tutorial 2: Using Hive
Date: Tuesday, April 17, 2018
Time: 2:00pm - 4:00pm
Presenter: Tatiana Polunina
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: Wednesday, April 25, 2018
Time: 2:00pm - 4:00pm
Presenter: Wensheng Deng
Location: Bobst Library, Rm. 617, 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.