Introduction to the Command-Line Interface (Shell, Bash, Unix, Linux)

(February 13th, 2019)

Description:
Access to tools and computational resources for large-scale data analysis often require knowledge of the command-line interface (also referred to as Unix or Linux or bash or shell). In this 1-day hands-on workshop participants will learn the following:

- basic shell commands for navigating the file system, exploring file contents, performing basic operations, such as moving, copying, and renaming
- how to write shell scripts and use "for" loops for efficiently running the same commands on multiple files
- how to use HMS-RC's O2 cluster for high-performance computing (HPC)

Together, this knowledge is critical for researchers looking to improve efficiency when performing computational tasks and it forms the foundation needed to analyze high-throughput sequencing data.

Prerequisites?
This is one of our basic workshops, and has NO prerequisites and no prior programming experience is required.
This workshop is a prerequisite for advanced workshops introducing the analysis of RNA-seq and ChIP-seq data.

Who should attend?

* Eligible* Harvard researchers who:

1. want to learn how and why to use the command line interface (Unix/Linux Shell) to efficiently manage and analyze data
2. want to use local clusters/high-performance computing environments for analyzing data (e.g. HMS-RC’s O2 cluster, or FAS-RC’s Odyssey cluster)
3. are interested in taking an advanced workshop on analysis of sequencing data within the next 6 - 8 months

* To be eligible to attend this workshop you should fulfill at least one of the following criteria:

- Harvard Medical School researcher in a lab on the Quad, with grants administered by HMS
- Harvard researchers whose PIs are associated with the HSCI as Principal or Affiliated faculty

If you are unsure of your eligibility, please register anyways and we will get back to you

Registration is now closed.
(Please check the eligibility requirements prior to registering)

Schedule:
Dates: Wednesday, Feb 13th, 2019
Time: 9 AM - 5 PM
Location: Harvard University Longwood campus (LMA) in Boston MA
There will be 2 short coffee breaks during the day and a longer lunch break (lunch will not be provided).

Cost and Registration:
There is a non-refundable $35 registration fee for this basic workshop.

We will be accepting 20-30 participants on a first-come, first-served basis:

- **If you are one of the first 20-30 eligible registrants**, you will receive an email with a link to pay the (non-refundable) $35 registration fee.
- **If you are not among the first 20-30 eligible registrants**, you will be added to the waitlist and accordingly notified.

*NOTE: You will not have a reserved seat for this workshop until you pay the registration fee. Please make sure you pay within the time stated in that email, else you will lose your spot to someone on the waitlist.*

**Registration is now closed.**

*(Please check the eligibility requirements prior to registering)*

**Questions?**

Please contact us at hbctraining@hsph.harvard.edu with any questions.