

**The GSBS  
Bootstrappers**



Unix Workshop  
October 2014

# Overview of Workshop

---

- Four sessions, 2 hours each
- Hands on format: live demonstrations, in class exercises, four take-home assignments
- Collaborative environment! No grades! We are guides not teachers!

# Why Learn UNIX?

---

- Big data!
- Familiarity for GHPCC cluster
- Running other programs: scripts (Python, Perl), samtools, bedtools, R
- Because it's fun and easy!

# What We Will Cover

---

- Navigating, creating, and removing files
- Text editors
- Useful tools: sort, awk, grep
- Small bash scripts

# What We Will Not Cover

---

- Running scripts/commands on GHPCC
- Other scripting languages: Perl, Python (another course!)
- Bioinformatics tools (bedtools, samtools, aligners)
- Other common commands (mount, ssh, scp, rsync, wget etc.)

# Workshop Materials

---

- Computer
- Workshop Exercises and Powerpoints
- Take home assignments → Google forms
- UNIX Manual, Demonstration Files, Lecture Videos

# Pre-Assignment

---

## Mac/Linux/Ubuntu Users:

- Open terminal

## Window Users w/ GHPCC:

- Download and install PuTTY
- Upload files to cluster

## Window Users w/ VM:

- Download and install VirtualBox
- Download Ubuntu Image