

MB590-012 Microbiome Analysis

Learning to Use the HPC

Description

Both for your class final project and your dissertation research, it is likely that there will be times when the data are too large to run on your laptop. In these cases, you can use R on the NCSU High Performance Computing Cluster (HPC). To prepare for this, you'll need to take the HPC training workshop. Then we'll have a guest lecture from Lisa Lowe on using dada2 on the HPC.

Workshop

The OIT HPC group has developed an outstanding online workshop on REPORTER that you can take at your own pace. There are four parts:

1. Prerequisites (access, open a terminal)
2. Day 1 – introduction to Basic HPC
3. Day 2 – basic storage and file transfer
4. More Day 2 – running serial jobs
5. Day 3 – running parallel jobs

Sign up here:

<https://projects.ncsu.edu/hpc/Documents/UserTraining.php#course>

Approval and Submission Deadlines

You should complete all HPC training **by Feb 22** in preparation for working with the HPC in the classroom on Feb 23.

Grading

When you've completed the module, please forward the completion email to me for class credit. This assignment is worth 30 pts.