Module Name

Author: Gregory J. Matthews

This material is part of the **statsTeachR** *project*

Overview

- stuff

Accessing the MGHPCC

- Register for the MGHPCC (for UMass): https://www.umassrc.org/hpc/
- You need: a login and a password
- Logging in: ssh username@ghpcc06.umassrc.org

Accessing the MGHPCC

- Register for the MGHPCC (for UMass):
  https://www.umassrc.org/hpc/
- You need: a login and a password
- Logging in: ssh username@ghpcc06.umassrc.org
- NOTE: You can only access the MGHPCC if you are on
  UMass's network (physically on campus or VPN)

Software

- Once logged in, you will be placed in your home directory
- In order to use software, you'll need to load modules.
- List of available software:
  http://wiki.umassrc.org/wiki/index.php/Provided_Software
- We are interested in using R here.
- So we need "module load R/3.0.1"
- We can also unload a module. "module unload R"

LSF common commands

- ► bsub - submit a job
- ► bkill - kill a job
- ► bjobs - view status of jobs
- ► bpeek - view output / error files
- ► bhist - job history
- ► bqueues - available queues

Batch Mode

- Rather than running R code interactively, we can also run R in BATCH mode.
- At the prompt, we submit a job by typing: R CMD BATCH filename.R

Batch Mode

- ▶ Once we have a .R file that we want to run we can submit it to the LSF job scheduler.
- ▶ What actually gets submited to the LSF scheduler is a shell script.
- ▶ We need to create a file that contains all of the code we would have run at the shell prompt.

```
> module load R/3.0.1
> R CMD BATCH filename.R
```