

# Module Name

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

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# 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`

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<https://www.umassrc.org/hpc/>
- ▶ You need: a login and a password
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- ▶ 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](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 submitted 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.

Example Shell Script

```
module load R/3.0.1
```

```
R CMD BATCH filename.R
```



# Submitting jobs to LSF

Example Shell Script module load R3.0.1 R CMD BATCH  
filename.R