<table>
<thead>
<tr>
<th>Quick Links</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HPC Home</strong></td>
</tr>
<tr>
<td><strong>Getting an account</strong></td>
</tr>
<tr>
<td><strong>Getting started on Prince</strong></td>
</tr>
<tr>
<td><strong>Prince How-to Articles</strong></td>
</tr>
<tr>
<td><strong>Logging in</strong></td>
</tr>
<tr>
<td><strong>Windows</strong></td>
</tr>
<tr>
<td><strong>Mac / Linux</strong></td>
</tr>
<tr>
<td><strong>Clusters and Storage</strong></td>
</tr>
<tr>
<td><strong>Prince (HPC)</strong></td>
</tr>
<tr>
<td><strong>Dumbo (Hadoop)</strong></td>
</tr>
<tr>
<td><strong>Brooklyn (OpenStack)</strong></td>
</tr>
<tr>
<td><strong>Dalmata (NYU Abu Dhabi)</strong></td>
</tr>
</tbody>
</table>
Transferri
ing data
to/from
the
clusters

Transferri
ing data
to/from
Prince
cluster
using
Globus

Submittin
g jobs
with
sbatch

Available
software

Licensed
Software
Available
on the
HPC
Cluster

Building
Software

Slurm
Tutorial

Tutorials

FAQs

Scratch
Area
Cleanup

Programming for
Biologists

Acknowledgmen

Statemen
t

Research

Gallery

HPC

People
Running jobs on the Prince Cluster

Accessing the Prince Cluster
- From Windows workstation
- From Mac workstation

Software and Environment Module

Job script and resource request
- Introduction to job scheduling
- Submitting jobs with sbatch
- Requesting resources
- Using computing nodes interactively

Monitoring batch jobs
- Monitoring batch jobs - squeue
- You can compile, edit scripts and view results on the login nodes, but **computational work should be run on the compute nodes**
- You can access compute nodes with `srun`
  - Either via a job script, or interactively
  - Compute nodes are allocated to jobs by the scheduler, so your job might not start immediately
  - Jobs must request resources, but mostly need not specify a queue.
  - Requesting just slightly more than when you expect to need is generally the best practice
  - **Short jobs get higher priority, and short or small jobs are easier to schedule quickly**
- You can monitor your job's progress with `squeue, sstat, sacct, scontrol` or `slurmtop`
- Software is managed by Environment Modules
  - Use 'module avail' to find software packages
  - And 'module load' to load them into your environment
    - Including within job scripts!
  - Use 'module purge' to return to a clean environment before loading a new set of modules
  - Other useful commands are 'module list' and 'module show'