

## HPC Activity Group Lunch Discussion (9/26/24)

### Introductions

- Introduction slides
  - o Add yours here if you haven't had a chance to yet
  - o  [Introduction\\_Slides\\_HPC.pptx](#)

### Brainstorming the most needed curriculum updates in HPC

- Giving students the opportunity / resources to be comfortable working on high-performance computing systems across the continent
  - o Open students minds to the possibilities of HPC
- Containerization and reproducibility
- Communication about HPC resources and student opportunities
- Students getting started with research on HPC can be unclear or seem daunting
- Roadblocks for students getting proficient at HPC
- Large interest and not enough face to face command line and linux instruction
- Resources for parallelization in R
- Interest in sequencing in complex ways
- Agriculture focused topics that require special resources
- Helping students navigate their learning goals and how to support them in that path
- Things that sometimes hold students back can be related to feeling like they belong "I am not the coder type" or "I am the coder type, but not good enough"
- Project based classes and workshops
  - o Not just lectures but projects for experience
  - o Maybe have students submit projects / topics to cover to give practical applications and answers to questions
- Instead of hack-athon do a "install-athon"
- Increasing participation from different departments across campus
  - o Not just the folks that are already doing HPC work

- How to build bridges for other researchers

#### Most needed / priority

- CLI skills
- Getting students motivated about skills needed for current job market
  - HPC center on campus / practical and visual appeal (touring to see face-to-face?)
  - UW and Anschutz have something like that
  - Alpine makes a whole day event for users to see system, get users connected, and build community

#### Homework for everyone to think about

- What would a curriculum look like to cover suggestions and needs outlined?
  - Ideas, things you are thinking about, and thoughts about what you would like to see in the future

DSRI HPC workshops starting today and reoccurring through rest of semester

- First workshop in BSB 103 at 3:30 – 4:30 (9/26)

Head of school of computing from UW coming October 24 to meet with researchers on campus with DSRI

- Email invitation coming soon