



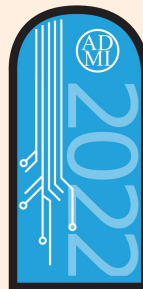
HackHPC@ADMI22 | Training Session



Extreme Science and Engineering
Discovery Environment



Science Gateways
Community Institute



HackHPC@

ADMI

High Performance Computing
and Gateways 2022 Symposium
www.admiusa.org



Join the
HackHPC@ADMI22
Discord using this
QR Code!

Kickoff Meeting

<https://hackhpc.github.io/ADMI22/>



HackHPC@ADMI22 | Training Session



XSEDE

Extreme Science and Engineering
Discovery Environment

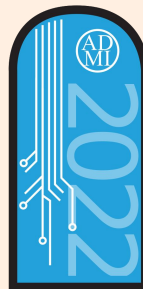


TACC

TEXAS ADVANCED COMPUTING CENTER



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Agenda

1. Introductions
2. Hackathon Objective
3. Code of Conduct
4. Deliverables and Resources
5. Judging Criteria
6. Mentor Pitches
7. "The Draft"



Organizers



Linda Hayden - *ECSU/SGCI*
haydenl@mindspring.com



Amy Cannon - *Omnibond*
amycannon@omnibond.com



Alex Nolte - *University of Tartu*
alexander.nolte@ut.ee



Boyd Wilson - *Omnibond*
boyd@omnibond.com



Je'aime Powell - *TACC*
jpowell@tacc.utexas.edu



John Holly - *XSEDE*
jholly@sura.org

Code of Conduct

Everybody is welcome!



<https://hackhpc.github.io/ADMI22/>

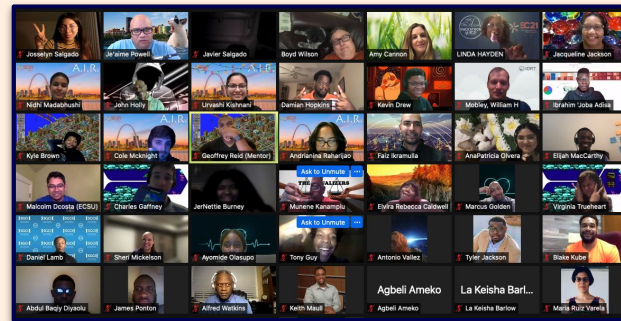
The Objective of HackHPC@ADMI

The hackathon aims to harness the resources, skills, and knowledge found in the HPC community in an effort to provide applied exposure towards students from 2-4 year post-secondary educational institutions. In short, the hackathon will provide HPC skills and training while targeting problems that directly affect the participants.

Develop knowledge about solutions to identified issues affecting them through application of data analysis/presentation or management.

Student Outcomes

- Increased familiarity with data science in the cloud
- Experience collaborative software engineering
- Develop professional communication skills





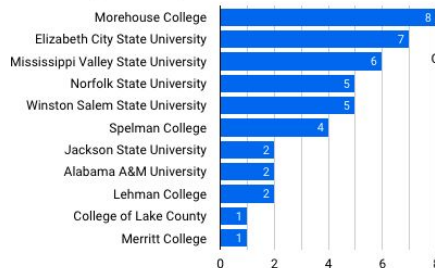
Total Registrants
70

Schools
11

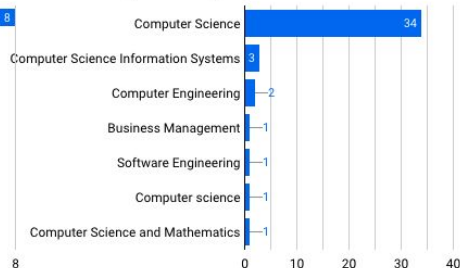
Student Participants
43

Mentors / Staff
19

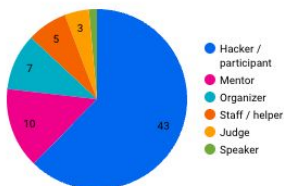
Student Registrations by School



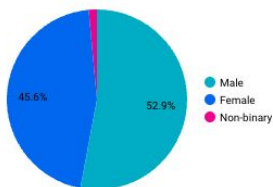
Student Registrations by Major



Registrations by Role

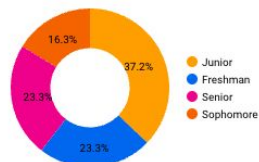


Registrations by Gender

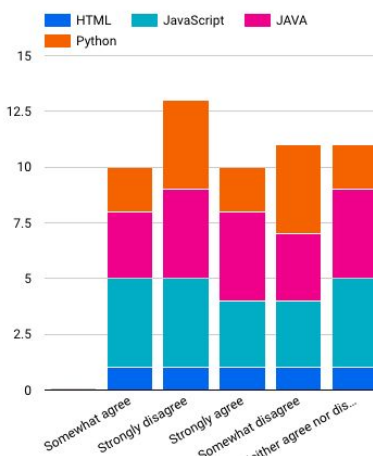


Provided Team Mentors	Record ...
1. Elvira Caldwell	1
2. Dr. Alfred Watkins	1
3. Thorna Humphries	2
4. Alfred Watkins	3
Grand total	43

Registrations by Classification



Participant Experience by Programming Language



Student Deliverables and Resources

Deliverables:

- Source code Including Comments
- PDF of presentation
 - Team members with pictures
 - Use of HPC technology in the project
- Github Repository Link
 - README.md with project description

Resources:

- Google Cloud (Provided Credits)
- Cloudy Cluster
- Most Commonly Used
 - Python
 - Jupyter Notebooks
 - Node.js (JavaScript)
 - Repl.it (Collaborative Environment)
 - HTML
- Discord - <https://discord.gg/ARq3vwWafF>



General Information (the 3 T's)

- **Teams**

- 4-5 Students
- 1 Primary Mentor
- 1 Technical Mentor

- **Time**

- March 31st - April 4th
 - 3/31 @~7pm ET Event Start
 - "The Draft"
 - 4/[1-4] @ 11am ET & 7pm ET- Checkins
 - 4/4@6pm ET-Final Presentations

- **Topic Examples**

- Data Analysis of COVID 19
- Economic disparities and their effects on college participation
- Genomics, Molecular Dynamics, or Weather Modeling in the Cloud.
- Social Justice
- AI-based Crowd Status
- Public Data Management
- Graduation Rates
- Broadband Access
- Insurance vs. Public Health Resilience

Judging Criteria



Mentor Pitches

<https://hackhpc.github.io/ADMI22/>

Questions and Concerns

Schedule:

<https://hackhpc.github.io/ADMI22/schedule.html>

<https://hackhpc.github.io/ADMI22/>

