



Kick-Off Session



<https://hackhpc.github.io/sgx3admi24>



Agenda

- Organizers
- Hackathon Objectives and Student Outcomes
- Code of Conduct
- Example Project Timeline
- Deliverables and Resources
- Awards
- Project Pitches
- Team Formation





Organizers



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Code of Conduct





The Objective of SGX3's ADMi24 Hackathon

This hackathon aims to harness the resources, skills, and knowledge found in the Science Gateways community in an effort to provide applied exposure towards students from 2-4 year post-secondary educational institutions. In short, the hackathon will provide skills and training while targeting problems that occur within the Science Gateways and Cyberinfrastructure community.

Student Outcomes

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



Example Project Outline

Event Simplified Schedule

- **Monday, 6/24/24**
 - **Kick-Off**
 - Project Pitches & Team Formation
 - Afternoon - Team Introductions
- **Tuesday, 6/25/24**
 - Morning Checkin - Team Goals and Plan
 - Afternoon Checkin - Team Status
- **Wednesday, 6/26/24**
 - Morning Checkin - Status
 - Afternoon Checkin - One-Day Progress
- **Thursday, 6/27/24**
 - Morning Checkin - Status
 - Afternoon Checkin - Status
- **Friday, 6/28/24**
 - **Final Presentations**

~ 76 hrs Total Time
- ~7 hrs Planning / Checkins
- ~30 hrs Sleep/Rest
~59 hrs Work Time





Deliverables and Resources

Deliverables:

Github Repository with:

- README.md with project description
- Source code Including Comments
- Presentation (PDF)
 - Team members with pictures
 - Use of technology in the project
 - Project impact to the Science Gateways community
- Poster
- Proof of poster submission to Gateways24 (+5pts Judging Score)

Resources:

- GitHub
- Omnibond Eureka
- Most Commonly Used
 - HTML/CSS/JavaScript
 - Python (Dash/Flask)
 - Jupyter Notebooks
 - GitHub Pages (Jekyll)
 - Repl.it (Collaborative Environment)
- TACC-Learn Slack Workspace, **#sgci-coding-2024** channel



Awards and Judging Criteria

Awards

- Judges Choice Award
- Viewer's Choice Award
- Impact Award



Awards and Judging Criteria

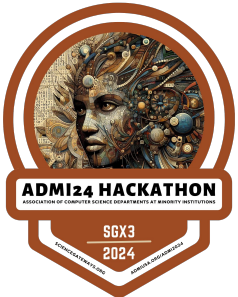
Impact Award



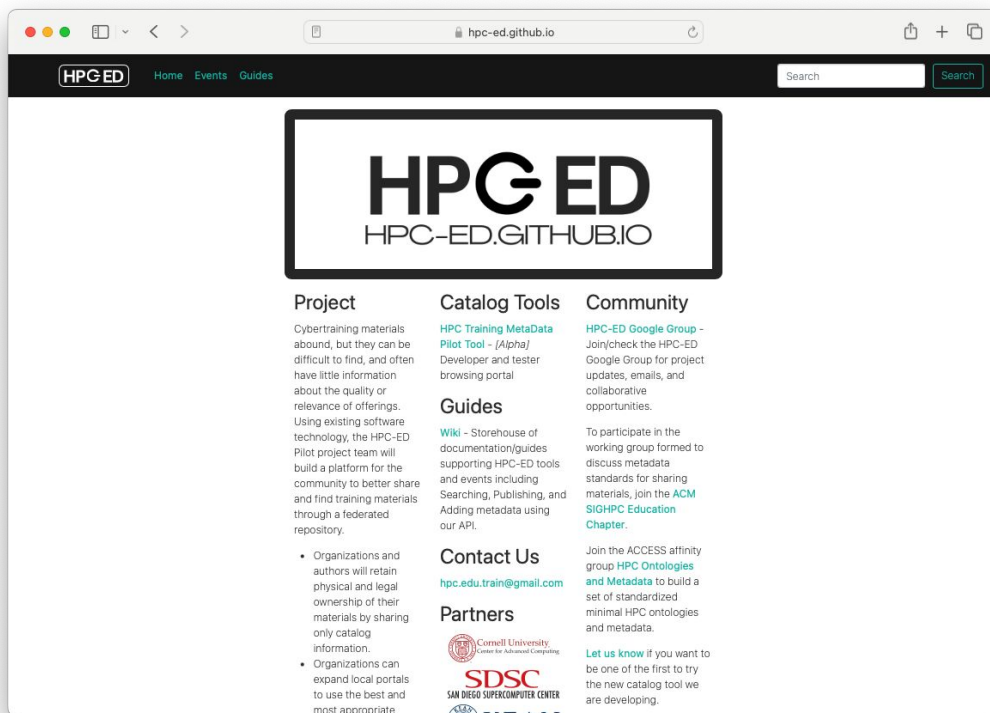


Portal Pitches





HPC-ED (<https://hpc-ed.github.io>)





HPC-ED (<https://hpc-ed.github.io>)



Goals:

Create a site that uses the HPC-ED API in the following ways:

1. Embeds a predefined search into the HPC-ED training database for a particular institution/university or HPC training topic
2. Takes input from a field and searches the HPC-ED then:
 - Displays the results
 - Allows the download of a JSON file
3. Create a form that allows the ingestion of a given site and then adds the site to the HPC-ED database

ADMI23 HACKATHON



AD: 1124 / HackHPC

HackHPC/Open Horizons Alliance OHA

Help recreate and fix any issues to

- HackHpc/OHA website.
- Using front end development

Purpose

- ★ To support driven learners to step foot in our Gateway and gain similar opportunities!

Programs to be Used:

- HTML
- Python
- Java Script



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Josselyn Salgado

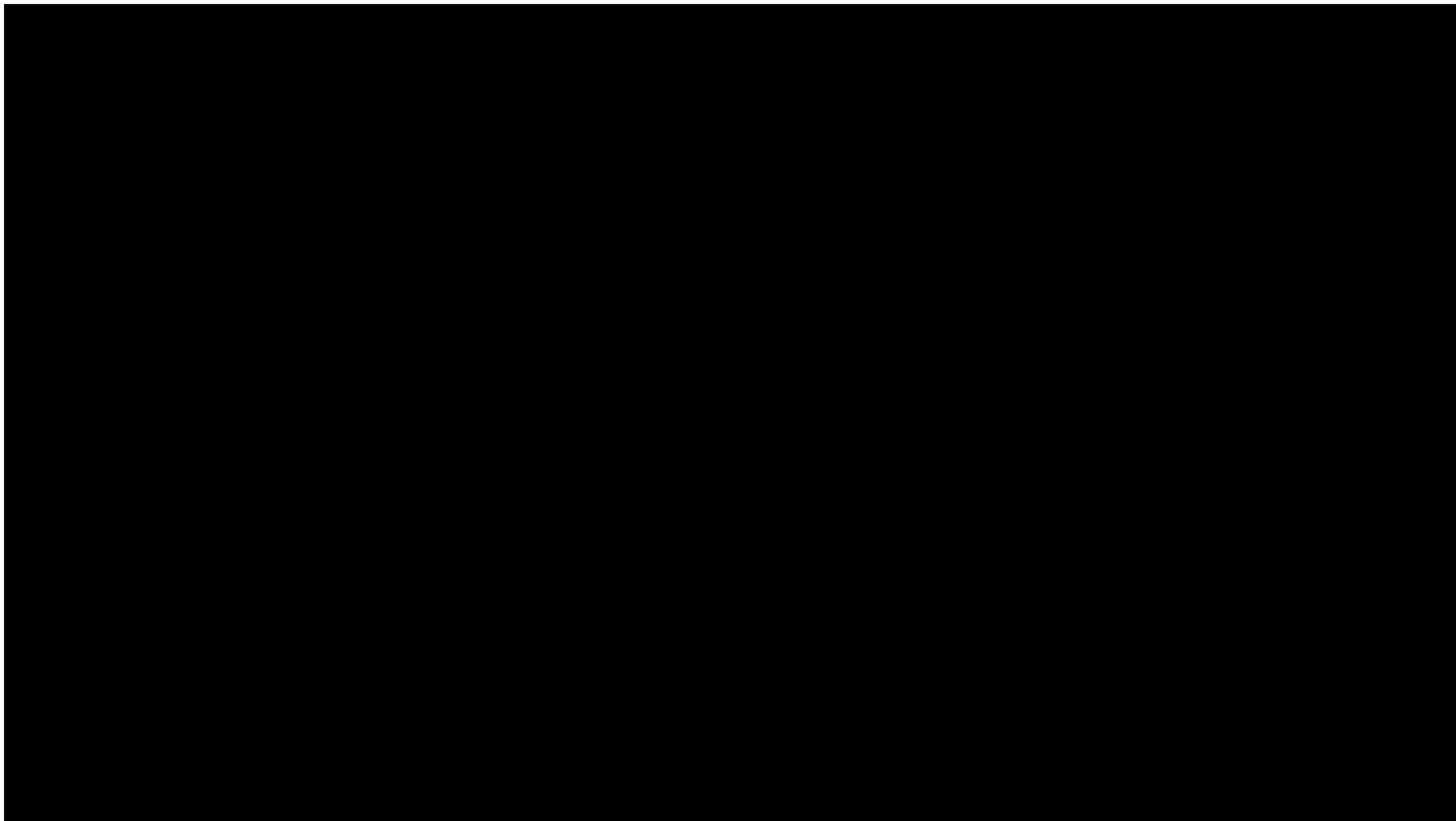
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<https://hackhpc.github.io/sgx3admi24>





ADMI (admiusa.org)

ADMI
ASSOCIATION OF COMPUTER SCIENCE DEPARTMENTS
AT MINORITY INSTITUTIONS
The Symposium on Computing at Minority Institutions

Members Email Login

What is ADMi?
The Association of Computer Science Departments at Minority Institutions (ADMI) was established as a national organization dedicated to exploring and providing remedies to the educational issues in computer/information science and computer engineering that confront minority institutions of higher education.

Perpetual Institutional Members

Elizabeth City State University	Hampton University
Mississippi Valley State University	Morehouse College
Norfolk State University	Winston Salem State University
Xavier University	

Institutional Members

Jackson State University	North Carolina Central University
Spelman College	University of North Carolina at Pembroke
University of the District of Columbia	

Affiliate Institutional Members

Auburn University

ADMI 2023
Symposium on Computing at Minority Institutions, Date: April 13-16, 2023, 2023 Computing for Social Good

COMPUTING FOR SOCIAL GOOD
ADMI
2023

Symposium includes:

- Current Perspectives on Machine Learning & Related Topics
- Student Papers & Oral Presentations
- Faculty Papers & Presentations
- HBCU Cybersecurity Competition
- HBCU Computer Science Olympiad Competition
- ADMI Symposium Social Media Competition
- Workshops
- Grad School/Career Fair

The purpose of ADMi is to serve as a forum through which members of computer and information science/engineering departments at minority institutions may:

- Exchange information and ideas for improving the quality and effectiveness of computer and information science/engineering education at minority institutions
- Identify and seek viable solutions to problems relevant to computer and information science/engineering education at minority institutions
- Communicate concerns and suggestions for the improvement of computer and information science/engineering education at minority institutions to appropriate organizations, agencies and groups
- Work for the continued development of excellence in teaching, state-of-the-art curriculum, research and equipment enhancement in computer and information science/engineering education at minority institutions
- Work for increased support in the continued professional advancement of faculty in computer and information science/engineering education at minority institutions
- Solicit and assist in the soliciting of funds for achieving the above stated objectives

How to Join ADMi
To join ADMi please download and complete the individual membership form and return it to ADMi. For institutions, please download and complete the institutional membership form and return it to ADMi.

Papers submitted to ADMi conferences must adhere to the ACM Proceedings format. Templates can be found at: <https://www.acm.org/publications/authors/submissions>.



Project Description

ADMI Website Reimagined - How can you enhance the look, feel, and capabilities of the ADMI website with HPC tools? Ideas might include

- (1) adding a data repository for sharing Computer Science teaching modules and projects,
- (2) adding a data visualization to analyze ADMI symposium attendee data, or
- (3) incorporate Artificial Intelligence into the website experience.

Useful Skills to Have or to Hack

1. web development skills (HTML, CSS, Javascript, PHP, etc.)
2. database management (e.g. MySQL)
3. data visualization (e.g. Attendance statistics)
4. AI tools (e.g. ChatGPT)



Team Formation

Team Intros Slide Deck: <https://bit.ly/4ccjevn>



Next Session:

- Afternoon Checkin Team Introductions [6/24/23] 1:30pm ET

- 1-Slide/1-Minute with:
- - Team Name
- - Team Mentor(s)
- - Team Members
- - Team Zoom Virtual Background
- - Team Theme Song

