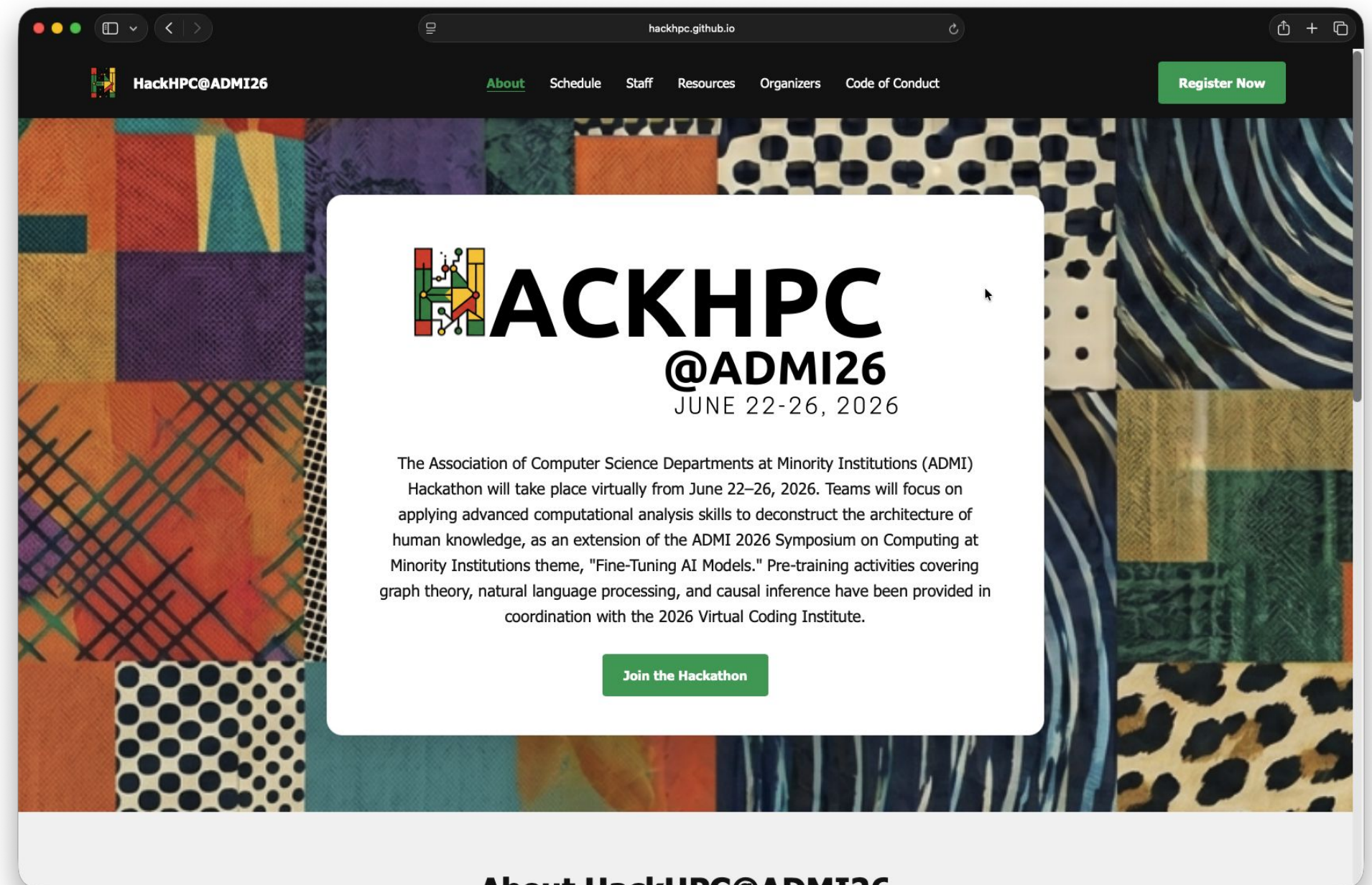


Kick-Off

June 22, 2026

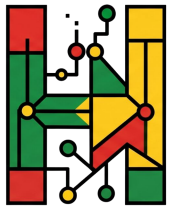
- Code of Conduct
- Introductions
 - Organizers / Sponsors
 - Mentors / Helpers
 - Participants
- Purpose
- Deliverables
- Timeline
- Awards
- Team Formation



Slide Deck:



<https://hackhpc.github.io/admi26>



Code of Conduct





Introductions

<https://hackhpc.github.io/admi26>

The Objective of SGX3's ADMI26 Hackathon

The **HackHPC@ADMI26 Hackathon** is designed to give students from 2- to 4-year post-secondary institutions applied, hands-on experience with advanced computational analysis, artificial intelligence, and graph-based problem solving. This year's hackathon focuses on deconstructing the architecture of human knowledge by using Wikipedia as a large-scale knowledge graph.

Through this experience, participants will explore how information is connected, how ideas evolve over time, and how computational tools can be used to analyze historical patterns, predict future developments, and reason through alternative outcomes. Student teams will apply concepts from graph theory, natural language processing, causal inference, and LLM-augmented analysis to develop projects aligned with one of the hackathon's core innovation tracks: *Origin Tracking*, *Future Event Prediction*, or *Alternative Timeline Analysis*.

The event emphasizes collaborative project development, iterative feedback, technical communication, and creative problem solving. Participants will move beyond "black box" AI tools by building applications that help explain the how and why behind the information we consume.

Student Outcomes:

- Gain practical experience using graph-based methods to analyze large-scale knowledge networks
- Apply natural language processing and text analysis techniques to explore conceptual relationships
- Use causal inference and historical pattern analysis to reason about origins, future developments, and alternative outcomes
- Collaborate on real software projects using open-source tools, shared workflows, and team-based development practices
- Build professional communication skills through project planning, team updates, final presentations, and technical documentation
- Understand how AI, knowledge graphs, and computational analysis can support deeper exploration of human knowledge and scientific discovery



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Innovation Track Explanation

- **Origin Tracking**
Where Did It Start? Find the origin story of a topic.
- **Future Event Prediction**
What's Next? Use past patterns to predict what may happen next.
- **Alternative Timeline Analysis**
What If? Explore how the future could change if one important event were different.

Further Innovation Track Examples

From a MARVEL Cinematic Universe Point of View:

■ Origin Tracking

This is like tracing how the Avengers came together. Instead of only starting with the first Avengers movie, you would look backward at Iron Man, Captain America, Thor, S.H.I.E.L.D., the Tesseract, and Loki to explain what events made the Avengers possible.

■ Future Event Prediction

This is like watching the early MCU movies and predicting that a major villain like Thanos would eventually become important. You would notice clues like the Infinity Stones appearing in different stories and use those clues to predict a bigger future event.

■ Alternative Timeline Analysis

This is like asking, “What if Tony Stark never became Iron Man?” Your team would explore what events might change after that. Would the Avengers still form? Would S.H.I.E.L.D. find another leader? Would Earth be ready for Loki or Thanos? The goal is to explain what changes and why.

Example Project Outline

Event Simplified Schedule

- **Monday, 6/22/26**
 - **Kick-Off**
 - Overview - Team Formation
 - Afternoon - Team Introductions
- **Tuesday, 6/23/26**
 - Morning Checkin - Team Project Plan
 - Afternoon Checkin - Team Status
- **Wednesday, 6/24/26**
 - Morning Checkin - Status
 - Afternoon Checkin - One-Day Progress
- **Thursday, 6/25/26**
 - Morning Checkin - Status
 - Afternoon Checkin - Status
- **Friday, 6/26/26**
 - **Final Presentations**

~ 99 hrs Total Time
- ~7 hrs Planning / Checkins
- ~32 hrs Sleep/Rest
~60 hrs Work Time



Hackathon Deliverables

- **GitHub Repository**

- README.md with project description and goals.
- Source code with comments explaining functionality.
- Project poster in PDF format.
- Final presentation in PDF, including:
 - Team members' names, schools, and photos.
 - Technology used (e.g., tools, HPC/AI resources).
 - Chosen Innovation Track
 - Innovation Track Visualization of Chosen Theme

- **Website for the Visualization and/or Application**

- **Proof of Poster Submission**

- Evidence of submitting the project poster to Gateways 2026.
- Adds +5 points to judging score.

Resources:

- GitHub and GitHub Pages
- Google Colab
- Omnibond's projectEureka
- TACC's Frontera
- Commonly Used
 - Generative AI
 - Python
 - Jekyll/HTML/CSS
 - Google Workspace
- **2026 Coding Institute Slack**
Workspace, #admi26-hackathon

Hackathon Awards

NOTE: A team can only win one (1) major award.

Major Awards

- **Knowledge Graph Analytics Award**

- *Recognizes the team with the most insightful and well-supported analysis of Wikipedia as a large-scale knowledge graph. This award celebrates thoughtful use of graph theory, natural language processing, causal reasoning, or LLM-augmented analysis to uncover meaningful patterns, relationships, origins, or future possibilities within connected knowledge.*

- **Portal Award**

- *Celebrates the team that creates the most effective, user-friendly, and engaging interface for exploring and communicating their project findings. This award honors strong design, clear visualization, and accessible presentation of complex knowledge relationships, timelines, predictions, or alternative scenarios.*

- **Gateways Impact Award**

- *Honors the team whose final project, presentation, and technical approach make the strongest overall contribution to this year's hackathon theme: deconstructing the architecture of human knowledge. This award recognizes a project that combines creativity, technical depth, clear communication, and meaningful use of computational tools to help users better understand how information connects, evolves, and shapes discovery.*

Example Minor Awards MAY INCLUDE

- *Team Introduction*
- *Project Planning*
- *Project Progress*



Team Formation

<https://hackhpc.github.io/admi26>

Goals For the Next Check-in

Your team needs to add two (2) slides to the shared deck with:

- 1st Slide with just Team Name
- 2nd slide with:
 - Team Name
 - Team Members Names
 - Team Zoom Virtual Background
 - Team Theme Song
 - *Royalty Free Music*
 - *No Lyrics*
 - *Hint: AI makes some cool songs these days lol*
 - *Innovation Track Chosen*



Shared Slide Deck:

<https://docs.google.com/presentation/d/1jvgESpRoHcBgYx9DUNXDyGcJF41FwxI4wOZO9gc0shM/edit?usp=sharing>

[Note: If your slide deck is made in Canva it must be exported to PPTX and then imported to the shared slide deck]