



Google Cloud



globus online

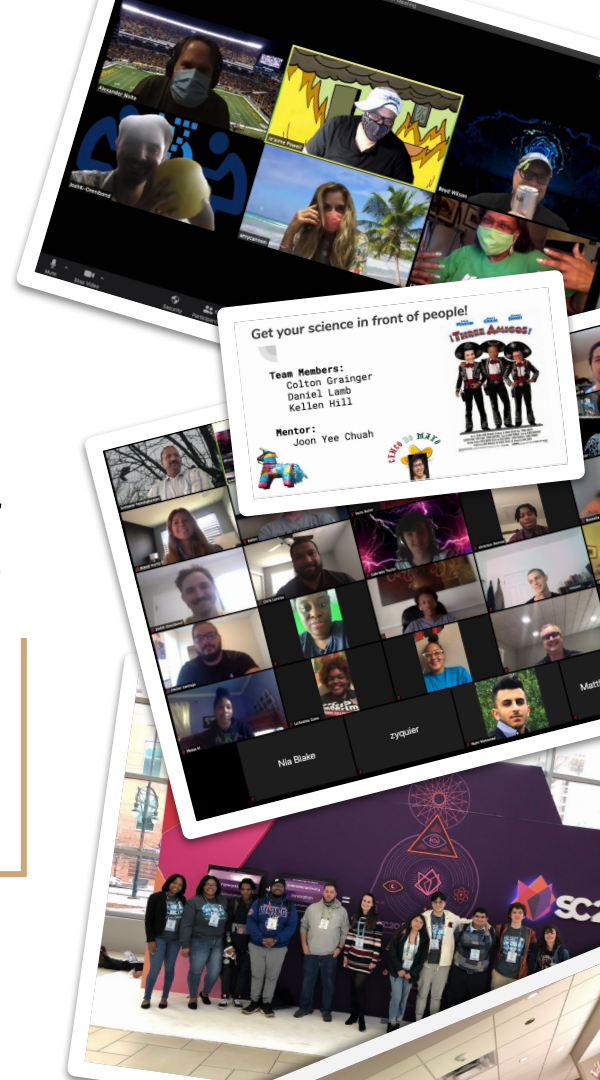


# HPC in the City Google Cloud Training



# SC20

Everywhere  
we are | more  
than hpc.



# Agenda

- Introductions
- Hackathon Objective
- Deliverables and Resources
- General Information
- Google Cloud Overview



Google Cloud Platform



HPC in the City

[HackHPC.org/hpc](https://HackHPC.org/hpc)

# Organizers



Alex Nolte - *University of Tartu*  
[alexander.nolte@ut.ee](mailto:alexander.nolte@ut.ee)



Boyd Wilson - *Omnibond*  
[boyd@omnibond.com](mailto:boyd@omnibond.com)



Amy Cannon - *Omnibond*  
[amycannon@omnibond.com](mailto:amycannon@omnibond.com)



Je'aime Powell - *TACC*  
[jpowell@tacc.utexas.edu](mailto:jpowell@tacc.utexas.edu)



Linda Hayden - *ECSU*  
[haydenl@mindspring.com](mailto:haydenl@mindspring.com)



# The Objective of HPC in the City

The hackathon aims to harness the resources, skills, and knowledge found in the HPC community in an effort to provide applied exposure towards the conference host city's local 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 an understanding of an Atlanta based issue through application of data analysis/presentation or management.

## **What you should expect to gain:**

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



# Team Deliverables and Resources

## Deliverables:

- **Source code Including Comments**
- **PDF of presentation**
  - Team members with pictures
  - Use of HPC technology in the project
  - Regional (Atlanta) implications of the project
- **Github Link**
  - README.md project description

## Resources:

- Mentors/Specialists
- Slack (Ad-Hoc Communication)
- Google Cloud (Provided Credits)
- Cloudy Cluster
- **Most Commonly Used:**
  - Python
  - Jupyter Notebooks
  - Node.js (JavaScript)
  - HTML
- Datasets



# General Information (the 3 T's)

- **Teams**

- 4-5 Students
- 1 Primary Mentor
- 1 Specialist/Staff

- **Time (*Draft*)**

- November 5th - 9th
  - 11/5@~6pm ET Event Start
    - Team formation
  - 11/[6-9] @ 11 ET & 6pm ET- Checkins
  - 11/9@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
- Presidential Election
- Public Data Management
- Graduation Rates
- Broadband Access
- Insurance vs. Public Health Resilience



# Google Cloud Overview



Google Cloud Platform



# Questions and Concerns

## Contact Information:

**Boyd Wilson**

*(HPC in the City Organizing Committee Member & TACC)*

Email: [boyd@omnibond.com](mailto:boyd@omnibond.com)

Twitter: [@boydwilson](https://twitter.com/boydwilson)

HPC in the City Event Site: <http://hackhpc.org/hpc/>



HPC in the City

[HackHPC.org/hpc](http://HackHPC.org/hpc)