

# THE DATA MINE: SUMMER COHORT '23

# *Ground Rules for Virtual Meetings*

- Add pronouns to your name
- Mute when you're not talking
- [if use auto-generated captions] when you use spoken English, check captions for accuracy
- Question? Comment? Please use the "raise hand" feature on Zoom
- Be patient. We have multiple communication modality preferences.

# ***WHAT IS THE DATA MINE EXACTLY?***

# Overview of The Data Mine

- Living, learning community (many students live in Hillenbrand Hall)
- All backgrounds and majors welcome
- Supportive, active learning environment
- Learn data science skills in HPC, Python, R, SQL; no lectures; all project based
- Data sets at modern complexity and size, from all disciplines
- 60 Corporate Partners, offering 75 projects, during 2022-23 academic year
- ~ 1300 total for fall 2022 with ~100 graduate students and ~100 students from MSIs
- **133 unique majors represented by students**



Convergence Center



Hillenbrand Hall

# *TDM Cohorts*

- National Data Mine Network
  - Bringing TDM experience to MSIs
- Indiana Data Mine
  - Establishing regional hubs with a strong focus on Indiana companies
- Black Studies Data Mine
  - Combining Black Studies and Data Science to Drive Policy Changes
- DEAF PODS
  - Bringing TDM experience to the deaf community in the United States

NSF GRANT #H473

# DEVELOPING EXPERIENTIAL ACCESSIBLE FRAMEWORK FOR PARTNERSHIPS AND OPPORTUNITIES IN DATA SCIENCE (FOR THE DEAF COMMUNITY) ['DEAF PODS']

# Corporate Partner Cohort

- Opportunity to work on real-world problems with corporate partners
- Hands-on, project-based experience
- Very student-led
- “In an industry, having data fluency is very important... They [students] are going to be able to use these skills when they go into industry. They’re going to really have some expertise from day 1 when they get hired with the company. ” – Brad Fruth from Beck’s

We will discuss more about this tomorrow morning.

# 2022 - 2023 Corporate Partners

 Allison Transmission	 ATOM	 We create chemistry BASF	 Battelle	 Bayer Crop Sciences	 Beck's Hybrids	 Boeing	 CENTERS FOR DISEASE CONTROL AND PREVENTION CDC PROTECT	 Central Insurance
 LAFAYETTE City of Lafayette	 CO-ALLIANCE Co-Alliance	 COOK MEDICAL Cook Medical	 CORTEVA Corteva	 DELTA Delta Faucet	 DORIS DORIS	 Elanco	 FHI	 FSSA FSSA
 Helmer Scientific	 HOWMET AEROSPACE Howmet Aerospace	 ingenii Ingenii	 inogen Inogen	 inotiv analyze. answer. advance. Inotiv	 intelinair IntelinAir	 Indiana University Health IU Health	 John Deere & Company	 LOCKHEED MARTIN Lockheed Martin
 MARA ELEPHANT PROJECT Mara Elephant Project	 MERCK Merck	 MINECRAFT Microsoft Minecraft	 PURDUE UNIVERSITY Purdue MFRI	 MISO MISO	 Molecular Stehoscope	 MURSIX Mursix	 Nationwide Nationwide	 NO LIMIT No Limit Living, LLC
 NUVVE Nuvve	 PACIFIC LIFE Pacific Life	 Pebblst Pebblst	 Pistoia Alliance Pistoia Alliance	 PlaneEnglish PlaneEnglish	 PURDUE UNIVERSITY Purdue Athletics	 PURDUE UNIVERSITY Purdue Biomedical Engineering	 PURDUE UNIVERSITY Purdue Data Mine Black Studies	 PURDUE UNIVERSITY Purdue EAPS
 PURDUE UNIVERSITY Purdue Office of Engagement	 Purdue Ray Ewy Sports Engineering Center	 PURDUE UNIVERSITY Purdue Office of Supplier Diversity	 PURDUE UNIVERSITY Purdue Student Life	 Raytheon Technologies Raytheon Technologies	 RENZOE BOX Renzoe Box	 Sandia National Laboratories Sandia National Lab	 SUBARU OF INDIANA AUTOMOTIVE, INC. SIA	 Tesla
 USAA USAA	 USDA US Forest Service	 Viasat Viasat	 WABASH Wabash	 Walmart Walmart	 webee Webee	 YAMAHA Yamaha Precision Propellers		



***WE ARE HERE TO SUPPORT YOU!***

# TDM Staff



Data Science Team



Corporate Partner Team



Academic Outreach Team



We all share the email:  
datamine@purdue.edu

Operations Team



Lone Wolves

# Meet Your TA

Nina Tran

- ASL Education Center, 5-Star Interpreting

Sammy Lisanetwork

- Nationwide, DEAF CYBERCON

Lynley Arnholt

- FSSA

Note: All TAs will sign all NDAs for all the projects.

## *At this point...*

- Signed the Direct Hire form from Purdue Business Center
- Know which project you're assigned to
  - Know your teammates are
- Identified your mentor meeting times
- Understand the generic scope of your assigned project

# *In progress...*

- Get your Purdue and ACCESS accounts set up
  - Gradescope, meeting invites, Microsoft Teams, emails, etc.
- Identify 15 hours of collaborative times with your team
- Create a team contract
- Sign the NDA for your project
- Receive meeting invites for mentor meetings by next week

# Expectations

## Submission

- Timesheet Justification due Sunday at 11:59 PM
  - Allocate 30 hours a week
- Sprint Report due Friday at 11:59 PM
- Pre and Post survey
- Poster Deliverable (deliverables may vary)
- No late work accepted

## Meetings

- Show up for all mentor meetings
- Regular team collaborative meetings
- Last mentor meeting every week:
  - Create slides consisting of your updates and present to your mentor(s)
- Show up to meetings prepared to take notes and ask questions
- **Student-led**

# *Expectations Cont'*

## Communication

- Constantly check your Purdue email and Microsoft Teams
  - Email & Teams are our primary mode of communication
- Be in constant contact with your TA, teammates, mentor(s)
- Be proactive for help
  - The earlier you let us know, the easier we can help you
- Not OK to stop participating if the content gets difficult

# *Let's Keep Each Other Accountable*

- Miss two meetings in row with no communication or unexcused
  - First meeting to discuss and check in to see how we can best help
- After the first meeting, miss a meeting for the third time
  - We will meet with you to discuss about your participation in the program

Your team contract is important as it's a way to keep yourself and your teammates accountable.



# *In Summary*

- Student-led
- Communication is the key
- We all are here to support you!

All contents are in the Examples Book:

<https://the-examples-book.com/deaf-pods/students/intro>

# ***QUESTIONS?***