National Data Mine Network

Student Welcome Call

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The Data Mine



National Data Mine Network (funded by NSF)





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What we will cover today

Overview: ASA & The Data Mine

National Data Mine Network (NDMN)

Key Resources

What success looks like in NDMN

Next steps

Q&A











The American Statistical Association (ASA) has secured a three-year grant from the National Science Foundation to establish a National Data Mine Network.

Goal: To increase access to advanced data science education, research, and industry collaborations for underrepresented student groups.

ASA has partnered with Purdue University to expand on Purdue's esteemed Data Mine Program. This collaboration leverages Purdue's strong infrastructure to benefit both organizations, offering 100 research stipends each year at minority-serving institutions across the nation.



Dr Donna LaLonde Associate Executive Director

Kristin Mohebbi Manager, Office of Executive Director



National Data Mine Network

Funded by NSF



- 3-year grant funding by the National Science Foundation
- Focused on 100 undergraduate students per year at Minority Serving Institutions
- Research stipends for 9-months of participation in weekly data science & corporate partner projects

- Students have access to data science training, materials, and high-performance computing
- 100% virtual teams
- Collaboration between Purdue and the American Statistical Association











THE DATA MINE

- Living & Learning Community
- All Majors Welcome
- Data Science for All!
- Experiential Learning
- Real-Data & Real-World Challenges

2022 – 2023 Corporate Partners



The Data Mine Staff

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Academic Programs, Outreach, & Expansion



Corporate Partners



Data Science & Technology



Operations



ASL Interpreter



ASL Instructor



Program Director



The Data Mine Staff

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Academic Programs, Outreach, & Expansion



Corporate Partners

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Data Science & Technology



Operations



ASL Interpreter



ASL Instructor



Program Director



National Data Mine Network: Program Overview

ALL: SEMINAR (TDM 10100)

- Hands-on experience through weekly data science projects
- 1-3 hours per week of work
- Topics include: R, Python, SQL
- Projects are released on Thursday and are due the following Friday
- Virtual session to ask questions directly with Dr Ward (4pm ET; Mondays)
- Online community via Piazza for Seminar help & Online TA Office Hours
- Starter Guides

MANY: CORPORATE PARTNERS

- Experiential data-driven project work with Corporate Partner Mentors from August - April
- Meet two times per week with mentor and/or project team
- Agile Project Management with 2-week sprints
- MS Teams for communication & collaboration
- TA & Corporate Partner Advisor to provide support

FEW: RESEARCH

- Only available to returning students from 2022-2023 cohort
- Working with university mentor on data-driven research
- Monthly sprint reports on research updates & progress
- Required to present at Virtual Symposium in late April/early May







Key Resources



The Examples Book

- All Data Mine information is located here
- Main resource for you make sure to bookmark!



Gradescope

 Where all seminar projects & sprint reports are submitted

Piazza

 Online community with all Data Mine students to ask seminar questions

ANVIL

 High-performance computing cluster used for both Seminar & Corporate Partners







What success looks like in the National Data Mine Network

















NEXT STEPS

Set up ACCESS ID (Anvil)

Download MS Teams & Firefox



Review The Examples Book

Check email for stipend information from ASA – first payment will be in September





SCHOOL OF MEDICINE



2023 AUCC'S SUMMER BRIDGE

MOREHOUSE

ÇA

CLARK ATLANTA UNIVERSITY



Dr. Talitha Washington Director, AUCC Data Science Initiative



THANK YOU





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The Data Mine

