

# THE DATA MINE

INTEGRATIVE DATA SCIENCE INITIATIVE  
AND LEARNING COMMUNITIES



# What is The Data Mine?

- Living, learning community for 600+ students in Hillenbrand Hall
- All backgrounds and majors welcome:  
**Data Science for All!**
- Learning data science skills
- Data sets at modern complexity and size
- Supportive, active learning environment



# The Data Mine Staff

**Dr. Mark Daniel Ward**

Director



**Ellen Gundlach**

Managing Director



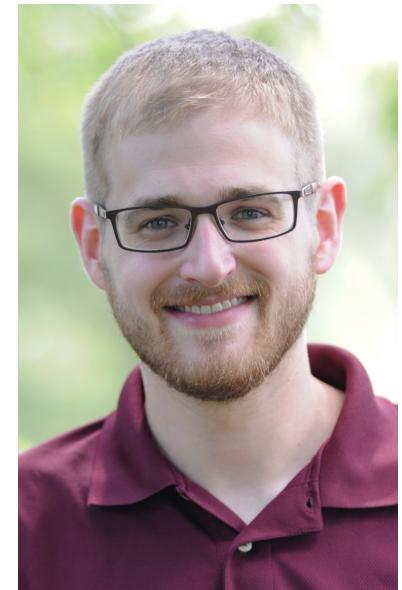
**Maggie Betz**

Corporate Partners  
Senior Manager



**Kevin Amstutz**

Instruction Specialist  
/ Data Scientist

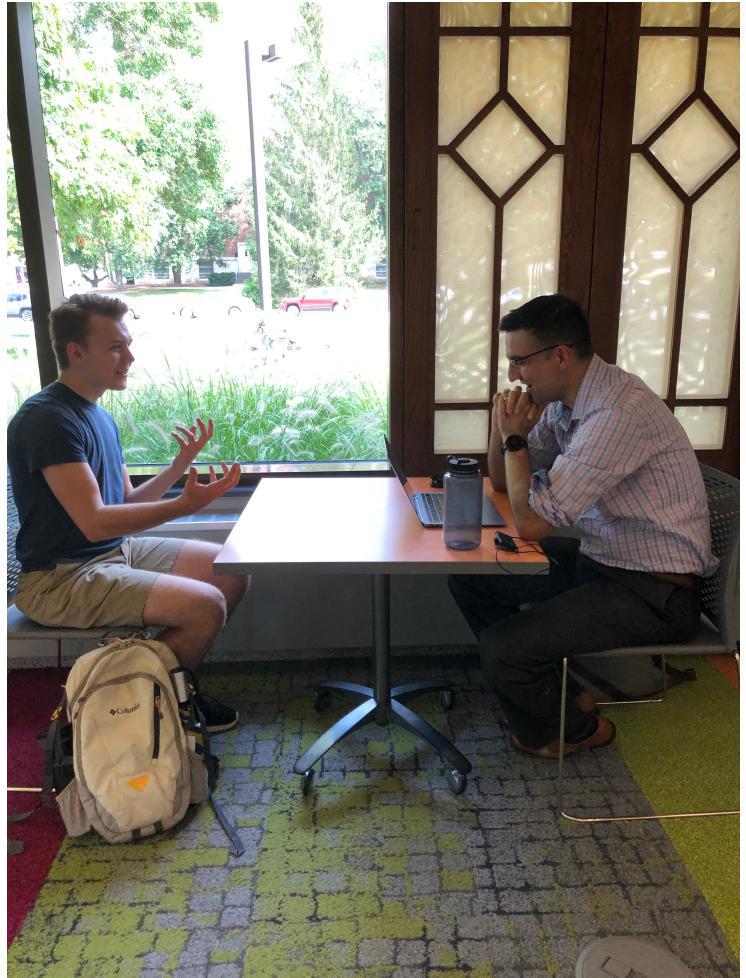


# Weekly Seminar



[datamine.purdue.edu](http://datamine.purdue.edu) > Education > STAT 190 or 290 or 390 or 490

# Flipping the Mentoring Model



Office hours with faculty and grad students in the residence hall lounges!

# Specialty Cohorts

- Actuarial Science
- Agriculture
- Analyzing Digital Gaming and Culture
- Biology
- Computational Investigation of Living Systems (Biophysics)

## • Corporate Partners

- Data Visualization
- Discoveries in Chemistry
- Earth, Atmospheric, and Planetary Sciences

- Human Development and Family Studies
- Krannert (Management)
- Nursing
- Pharmacy and Drug Discovery
- Physics
- Public Health
- Regenstrief Center for Healthcare Engineering
- Sports Analytics
- Statistics
- Vertically Integrated Projects

# Corporate Partners

- 2020-21: 350 undergraduate and 100 graduate students working on 30 projects from 23 Corporate Partners
- Students work 8-10 hours per week for academic credit or pay
- Data from industry partners and meaningful projects
- Mentoring by experts in industry and academia
- Full academic year long projects (August – May)
- Peer mentoring positions for 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> year
- Paths to internships and permanent employment



Student visit to Ford in Michigan, Fall 2019



Student visit to Rolls-Royce in Indianapolis, IN, Spring 2020

# 2020 - 2021 Corporate Partners



Sandia  
National  
Laboratories





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ABOUT ▾ 20 LEARNING COMMUNITIES ▾ RESEARCH ▾ EDUCATION ▾ CAMPUS PARTNERS ▾ STUDENT RESOURCES ▾



Experience 20  
Communities

Corporate  
Partners E-  
Symposium

Apply Now for AY  
2020-21

TA/Peer Mentor  
Application

STAT 19000 seminar

STAT 29000 seminar

STAT 39000 seminar

## Understand Data and Make It Mine

The first large-scale living learning community for undergraduates from all majors, focused on *Data Science for All*. Hillenbrand Hall has an 800-student capacity. It is filled with new learning communities of students preparing for the data-driven workforce of the 21st century.

# KEY GOALS FOR 2020-21

Integrate The Data Mine opportunities into all college curricula

Involve more faculty in Corporate Partnerships

- as mentors for undergraduates
- as domain experts
- to bolster their research and their partnerships

Support ongoing university relationships w/Corporate Partners

Help establish new partnerships for Purdue

Support external grants / funding initiatives

# THE DATA MINE



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Website: <https://datamine.purdue.edu>

Meet us: <https://calendly.com/datamine>