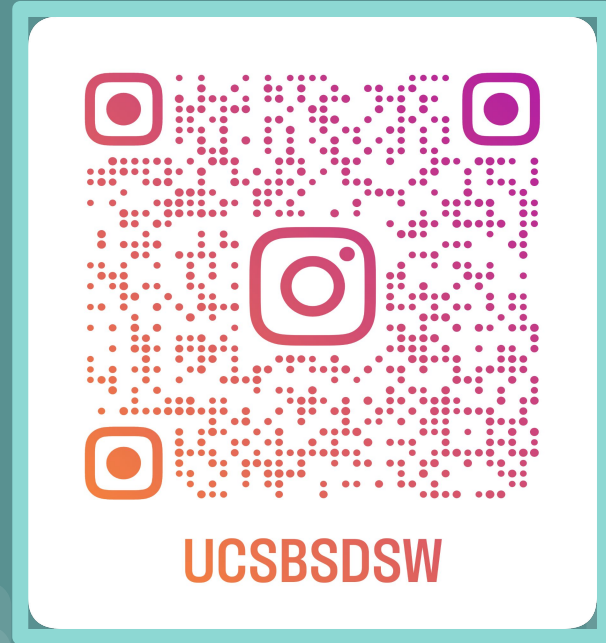


# Statistics and Data Science Society Workshop Series

Friday Jan. 27

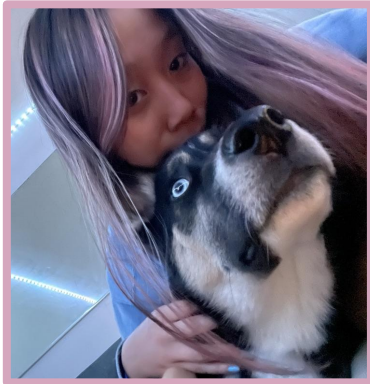


# Sign in





# Get to know us!



**Kris Hao**  
(she/her/hers)

- SDS Junior
- Interests: rest APIs, BI
- Fun fact: I'm from Hong Kong



**Anya Macomber**  
(she/her/hers)

- SDS senior
- Minor in English & student in EMT program
- Fun fact: I have a cat and his name is Sheldon



# About this workshop series

Our goals are to:

- make data science accessible,
- build participants' data science skills,
- ensure each person walks home with a deliverable, and
- meet and network with others.

No prior experience necessary!



# How we're making it happen

1. Skills workshops
  - Mini project runthrough+grouping
  - Check-ins & progress checks
2. Small projects
  - 3-5 people, ideally diverse in experience level
3. Project showcase during spring quarter
  - Inviting professionals from the industry

# **Brief Overview**



```
graph LR; A["Brief Overview"] --- B["What is analytics?"]; A --- C["Occupations"]; A --- D["Advanced analytics"]
```

**What is analytics?**

**Occupations**

**Advanced analytics**





# What is analytics?

- Analysis: Separating data into chunks
  - Individually
  - Explain what happened
- Analytics
  - Logical+computational reasoning (apply)
  - Qualitative (intuition+experience)
  - Quantitative (formulas+algorithms)
    - Past sales + experience -> predict





# Occupations

- Analyst
  - Gather data
  - Data mining (extracting patterns)
- Scientist
  - Predictive analytics (statistical models, accurate forecasts)

# Advanced Analytics

- Machine learning: Predict outcomes without being explicitly programmed to do so
  - Analyze patterns, recommendations
- AI: Synthesizing information by machines that stimulate human knowledge+decision making
- Traditional data (databases), big data



Romain Trachel and Alexandre Peyrot  
(ML+Environment Query System (EQS), use  
spatial data to inform AI decisions)



# Brainstorm

**We want to hear from you!**

- Your interests
- Skills you want to learn
  - Programming: R, Python, SAS
  - Data cleaning
  - Basic analysis
- Any questions
- Project leads
- Committee

**Discuss with a group near you, then we'll check back in.**



## Next meeting

February 3rd 12:30 pm-2 pm

at **Girvetz Hall Room 1004**

Hope to see you there!

