

Project 1

The Problem: My mom maintains the unscientific view that full moons cause people to act strangely. I don't believe this, but I can't help but wonder whether she and her lunatic fringe are onto something. I'd like to prove or disprove that full moons are correlated with odd human behavior, to increase my own confidence; and either increase or decrease lunatics' reliance on celestial bodies as explanations for real world events.

The Data: There are many datasets related to the position and fullness of the moon ([Example](#)). There are many datasets related to crime ([Example](#)) and causes of death/accidents ([Example](#))

Your Hypotheses: I believe the solution is to seek out statistically significant correlations between the full moon and crime. Success will look like a proving of disproving of relationships.

Project 2

The Problem: Getting older and grumpier has made me increasingly sensitive to quality of life issues. What are people bitching about in San Francisco? How have complaints changed over time? By how much? Can I predict what will be complained about next?

The Data: <https://cloud.google.com/bigquery/public-data/sfo-311>

Your Hypotheses: I believe the solution is to plot changes in reporting trends over time. Success will look like visualized trends supported by numbers (?) and forecasting. I don't know exactly what that means yet but I'm running out of time here.

Project 3

The Problem: Where should I invest in real estate outside of the Bay Area? I'd like to assess population growth, job growth, air quality, and real estate prices across the US; and identify the cities with the highest positive indicators with the lowest price point

The Data: <https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=bkmk>; <https://www.bls.gov/lau/>; <http://www.car.org/marketdata/data/countysalesactivity/>; <https://cloud.google.com/bigquery/public-data/epa>

Your Hypotheses: A city exists that has relatively high positive indicators to its low price point indicator. Success will look like an identification of that city.