

# Population Health

...

Roger Peng

# Gauging the health of populations...on the cheap



# Population health datasets

- NHANES: <http://www.cdc.gov/nchs/nhanes.htm>
- NHIS: <http://www.cdc.gov/nchs/nhis.htm>
- General Social Survey: <http://www3.norc.umd.edu/GSS+Website>
- BRFSS: [http://www.cdc.gov/brfss/data\\_documentation/index.htm](http://www.cdc.gov/brfss/data_documentation/index.htm)
- CMS Data Navigator: <http://dnnav.cms.gov>

# What causes population health to vary?

- Environment
  - Indoor
  - Outdoor
  - Built
  - Neighborhood
  - Economic
- Diet
- Behavior
- Public policy

# Example Ideas

- Descriptive
  - [Ozone compliance map](#)
  - How many people live in areas in the U.S. with poor air quality (out of compliance)?
  - How does the burden of poor air quality vary with income levels?
  - Does the introduction of fracking change regional air quality?
- Natural experiments
  - Blackouts / Power loss
  - Sudden or rapid economic shifts (recession, housing market)
  - Smoking bans
- Propose an intervention and predict how well it would do
  - Reduce truck idling at ports
  - Remove soda from schools