

# Data 8, Lab 2

Causality and Table Operations

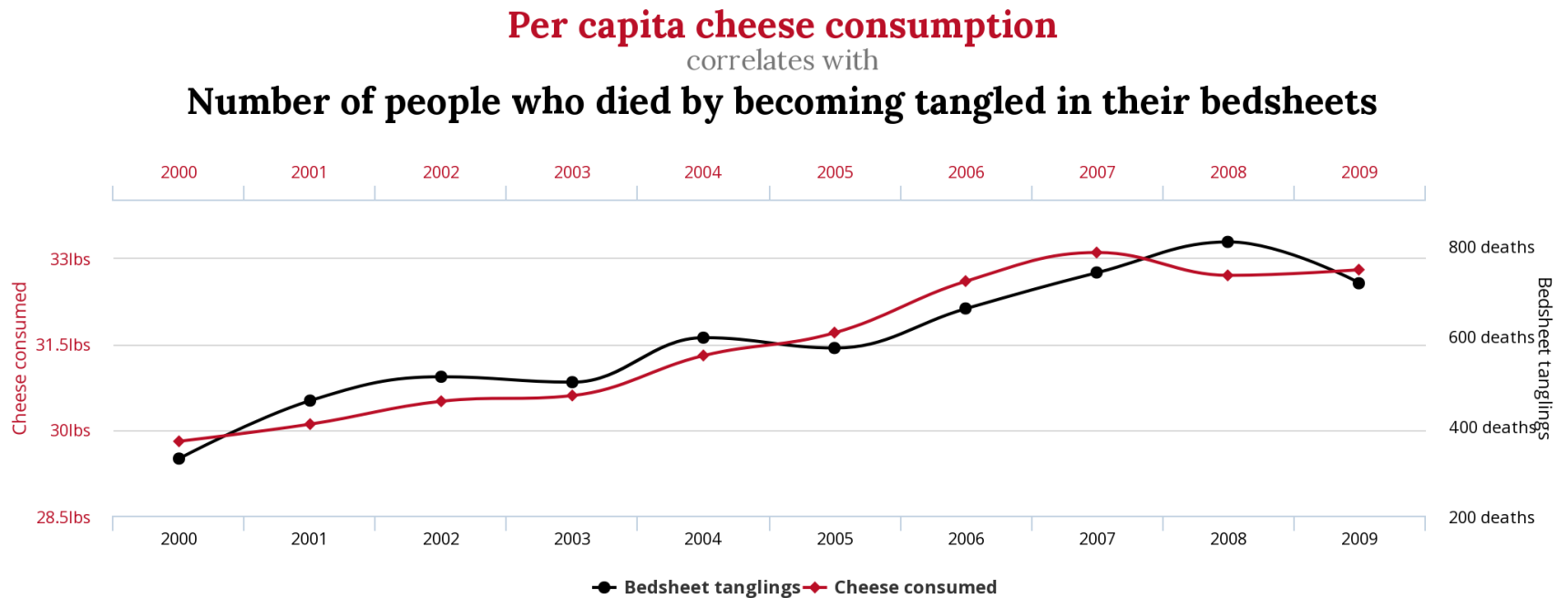
Hubert Luo  
Spring 2020

31 January 2020

# Lab Assistants

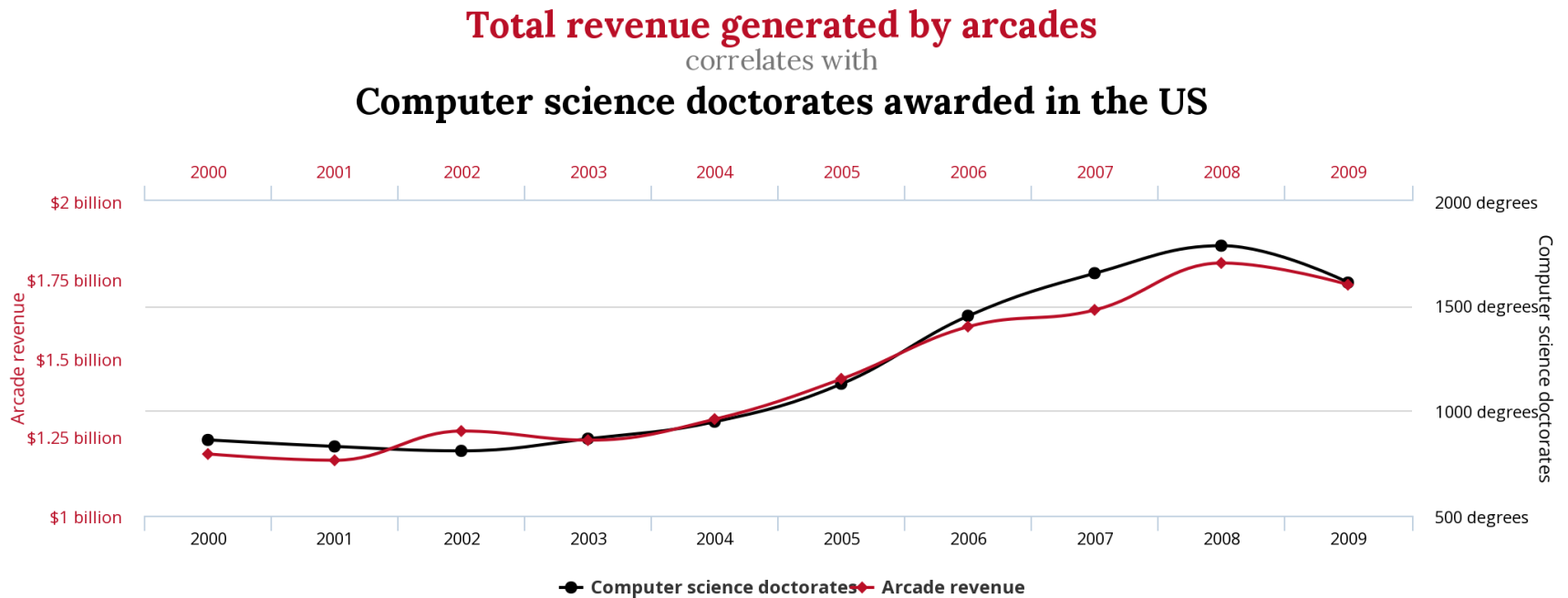
We have lab assistants who will be joining us this semester!

# Correlation vs. Causation



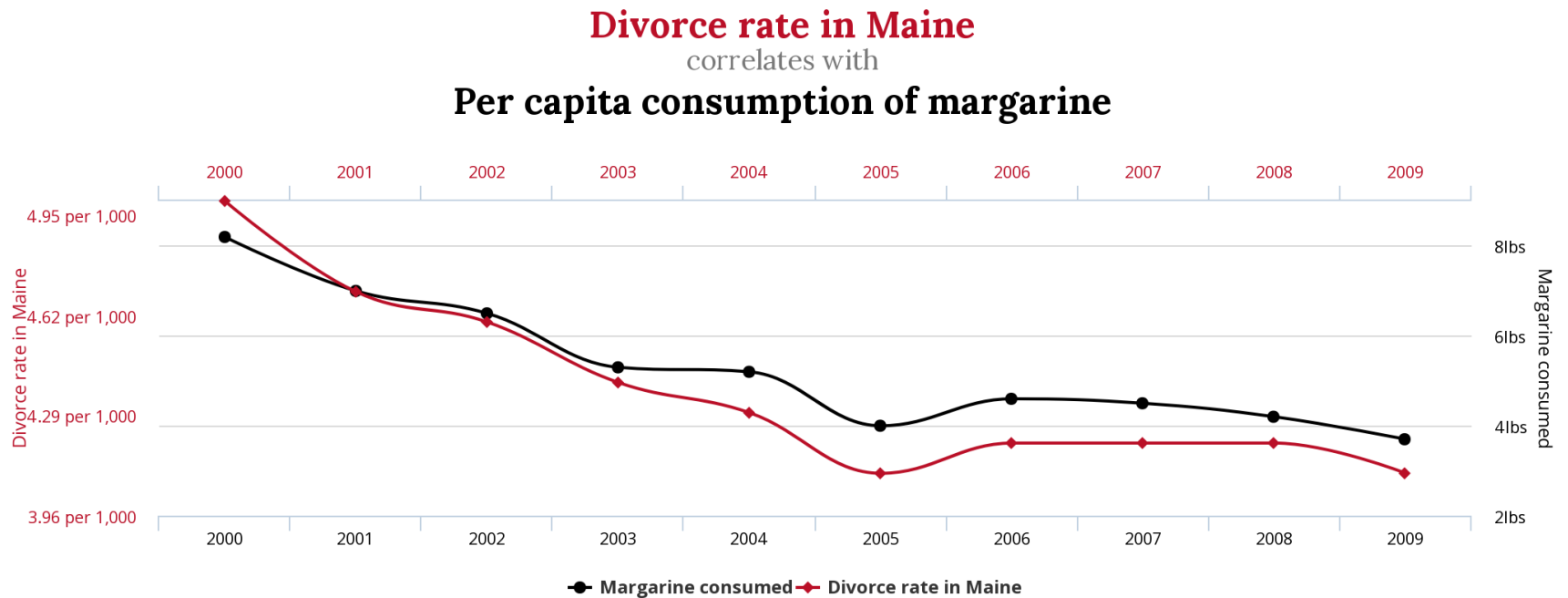
tylervigen.com

# Correlation vs. Causation



tylervigen.com

# Correlation vs. Causation



tylervigen.com

Correlation does not imply  
Causation!!

# Establishing Causality

- Observational Study: Experimenter has no ability to divide study participants into treatment and control groups
- Randomized Control Experiment: Randomly divide participants into treatment and control group
- Example: Study the effect of capital punishment on a state's murder rate
  - Observational study since researchers cannot just randomly decide which states have capital punishment or not

# Announcements

- HW1 due 1/30
  - Early submission bonus point on 1/29
- Tutoring section sign-ups have been released, will start in week 3
  - Highly recommended: Opportunity to work with a tutor and other students in a small group setting
- DSP students: Please talk to your advisor about submitting letters of accommodation to SCARAB
- Office Hours start this week! 12-5pm Monday-Friday in 581 Barrows
  - Hubert's Office Hours are 4-5pm on Fridays



# Announcements Contd.

- Gradescope vs. Okpy Regrade Requests
  - Gradescope: Directly request on Gradescope (written answer for homework or projects)
  - Okpy: Email Hubert (autograder error only)
  - Make sure to submit before the regrade request deadline! Regrade requests after the deadline will not be considered
- Lab Credit Policy Reminder. Credit in two possible ways:
  - Attend **entire** lab section and make substantial progress
  - Finish and pass all autograder tests by Wednesday at 8:59 AM