PSC 202 SYRACUSE UNIVERSITY

INTRODUCTION TO POLITICAL ANALYSIS

EXPERIMENTS, PART 1

EXAM

- Exam 3 next week Wednesday
 - If you take it at CDR, please sign up now!
- "Study Guide" slides will be posted later today
- Review on Monday
 - Email questions by Sunday evening

STUDENT HOURS

- Next week: Tuesday 1-3
- 530 Eggers or Zoom
 - Zoom info on syllabus

Canvassing

Turnout

- Does canvassing people in campaigns increase turnout?
 - How could we study that?



- Does canvassing people in campaigns increase turnout?
 - Survey people:
 - Did you vote in the last election?
 - Were you contacted by a campaign?

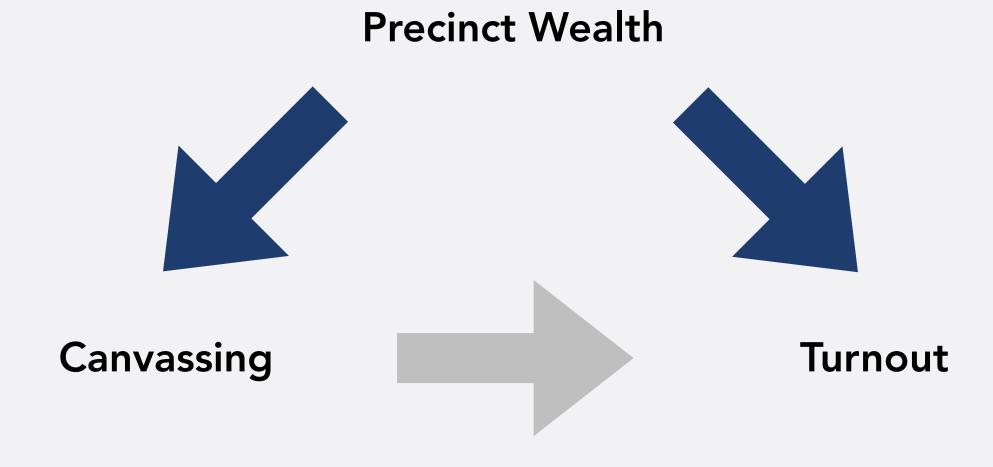


- Does canvassing people in campaigns increase turnout?
 - Collect data precinct-level data:
 - How high is turnout in different precincts? (%)
 - How much did the campaigns canvass in precincts? (total hours)



PROBLEM

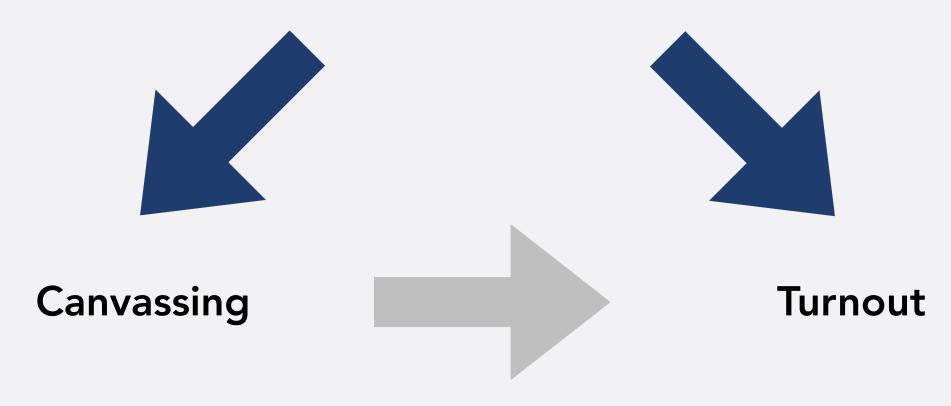
- We do a linear regression
 - Turnout = a + b₁ * Canvassing Hours
- Suppose we find: Precincts in which campaigns canvassed more hours have higher turnout
- Is this evidence that canvassing causes higher turnout?



 Maybe campaigns canvass more in rich precincts, and wealthier people are more likely to turn out

- Turnout = a + b₁ * Canvassing Hours + b₂ *
 Precinct Wealth
- If b₁ is still positive and significant, is this evidence that canvassing causes higher turnout?

Close election expected



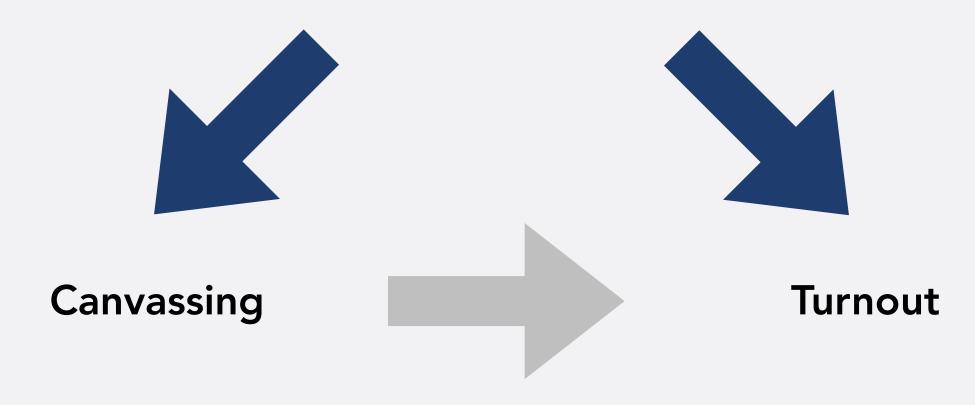
 Maybe campaigns canvass more when election expected to be close, and people turn out more when they expect nail-biter

- Turnout = $a + b_1 * Canvassing Hours + b_2 * Precinct Wealth + b_3 * Expected Closeness$
- If b₁ is still positive and significant, is this evidence that canvassing causes higher turnout?

HURDLES TO CAUSALITY

- Is there a credible causal mechanism that connects X to Y?
- Can we rule out the possibility that Y could cause X?
- Is there covariation between X and Y?
- Have we controlled for all confounding variables (Z) that might make the association between X and Y spurious?





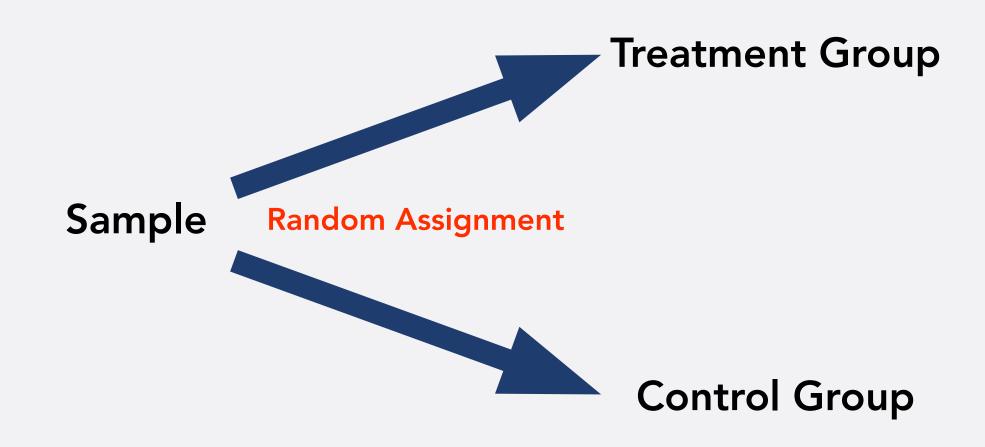
 We can never be sure that we have controlled for all alternative causes

- Observational analysis
 - Takes data as we find it in the world
 - Regression tries to find the "data-generating process"
 - Does "our" X cause Y, controlling for potential alternative explanations?
 - Problem: We never know if we have controlled for all potential alternative explanations

A DIFFERENT APPROACH

- Observational approach: Researchers observe turnout and canvassing efforts, try to control for potential alternative explanations
- Experimental approach: Researchers decide how much canvassing happens in different precincts, see whether those with more canvassing have higher turnout

EXPERIMENTS



EXPERIMENTS

- A sample of precincts
- For each precinct, flip a coin
 - Heads: Canvassing happens
 - Tails: Canvassing does not happen
- Compare turnout between two groups

WHY DOES THIS WORK?

- Researcher controls canvassing, assigns precincts randomly
 - Average wealth about the same for treatment and control precincts
 - Expected closeness of election too
 - All characteristics should be about the same in the two groups
 - If sample is big enough and assignment is truly random

Getting Out the Vote in Local Elections: Results from Six Door-to-Door Canvassing Experiments

Donald P. Green
Alan S. Gerber
David W. Nickerson
Yale University

- Local elections in 2001
- 6 cities: Bridgeport, Columbus, Detroit,
 Minneapolis, Raleigh, St. Paul
- Collaboration with non-partisan GOTV organization

- Official voter lists
- Randomly assigned citizens to treatment and control group
 - Treatment: In-house visit by volunteers
 - Control: No visit
 - Random assignment at individual level
- Total: ~19,000 subjects

- Get data on whether people in sample voted or not (public information)
- Turnout in treatment group (canvassed) about 7 percentage points higher

ANOTHER EXAMPLE

The Effects of Canvassing, Telephone Calls, and Direct Mail on Voter Turnout: A Field Experiment
ALAN S. GERBER and DONALD P. GREEN Yale University

- Midterm elections in 1998
- New Haven, CT
- What is most effective: canvassing, phone calls, direct mail?

- Official voter lists
- Randomly assigned citizens to several treatment groups (and a control group)
 - Treatment 1: In-person visit by volunteers
 - Treatment 2: Phone call made
 - Treatment 3: Direct mail sent
 - Control: No mail/call/visit
 - Random assignment at individual level
- Total: ~30,000 subjects

- Again get data on whether people in sample voted or not (public information)
- Effect of different contact methods on turnout:
 - in-person canvassing: 9.8%
 - each piece of mail: 0.6%
 - phone call: no effect

DOOR-TO-DOOR CANVASSING



- Many canvassing experiments have been done
 - Canvassing increases turnout
 - Effectiveness depends on election and voters
 - Canvassing works better close to election day
 - Who delivers the message matters
 - Canvassing has spillover effects

DOOR-TO-DOOR CANVASSING



- How effective is it?
 - Best estimate: 1 additional vote for each 14 contacts
 - Cost: \$29 for each additional vote

BASIC STEPS

- 1. Randomly assign participants
- 2. Manipulate independent variable
 - Control group, treatment group
- 3. Measure dependent variable
- 4. Analyze differences in dependent variable between treatment and control groups
 - Because of random assignment, only independent variable can explain differences
 - All other variables are "balanced" between treatment and control group
 - Not necessary to control for potential confounding variables

INTERNAL VALIDITY

- Does the study isolate the effect of the independent variable on the dependent variable?
 - If yes: high validity
 - If no: low validity
- Experiments usually have high internal validity
 - Because of random assignment, other variables (Z) cannot explain differences between treatment and control groups

EXTERNAL VALIDITY

- Can we generalize the finding of the study to other settings?
 - If yes: high external validity
- Experiments often have low external validity
 - e.g. not clear if results would be similar if done in other cities or countries
 - If partisan canvassing, candidates may only agree to experiment in uncompetitive elections, not clear if results would be same for competitive elections

TYPES OF EXPERIMENTS

What kinds of experiments are there?



Campaign Contributions Facilitate Access to Congressional Officials: A Randomized Field Experiment

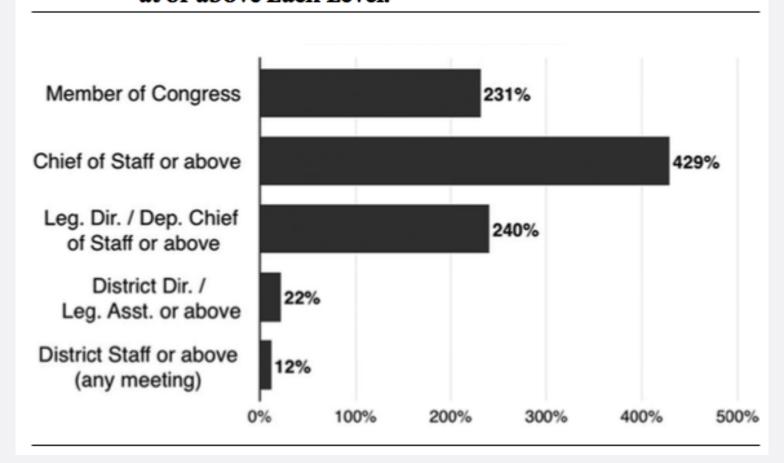
Joshua L. Kalla University of California, Berkeley

David E. Broockman University of California, Berkeley

 What is the effect of campaign contributions on access to politicians?

- Organization tries to arrange meeting between its members and congressional officials
 - Per e-mail
- Experimental manipulation
 - Control group: "local constituents"
 - Treatment group: "local campaign donors"
- Outcome: Is a meeting granted, and who will it be with?

FIGURE 2 Percentage Increase in Access Revealed Donors Gained, at or above Each Level.



TYPES OF EXPERIMENTS

- Field Experiment
- Lab Experiment
- Survey Experiment

- Experiment in the real world
 - Some aspect of people's real-world experience is experimentally manipulated
 - Participants often not aware that they are subjects
- Canvassing and turnout is a field experiment

Today is Election Day

What's this? • close



Find your polling place on the U.S. Politics Page and click the "I Voted" button to tell your friends you voted.







Jaime Settle, Jason Jones, and 18 other friends have voted.

Do messages like this increase turnout?

A 61-million-person experiment in social influence and political mobilization

Robert M. Bond¹, Christopher J. Fariss¹, Jason J. Jones², Adam D. I. Kramer³, Cameron Marlow³, Jaime E. Settle¹ & James H. Fowler^{1,4}

37.8% in 2010. Our results suggest that the Facebook social message increased turnout directly by about 60,000 voters and indirectly through social contagion by another 280,000 voters, for a total of 340,000 additional votes. That represents about 0.14% of the voting

- All kinds of field experiments
 - Candidates randomize TV ad buys to see if they have an effect on voter preferences
 - Candidates randomize what they talk about on the campaign trail to see if it affects vote share
 - Aid organizations randomize who gets aid (and in what way) to see if it helps people succeed
 - Military randomizes whether soldiers are in team with women or not to see how it affects performance and attitudes
- Among experiments, field experiments tend to have highest external validity