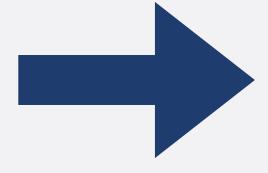
PSC 400 SYRACUSE UNIVERSITY

DATA ANALYTICS FOR POLITICAL SCIENCE

ESTIMATING CAUSAL EFFECTS WITH OBSERVATIONAL DATA

RUSSIA AND UKRAINE

Receiving Russian TV



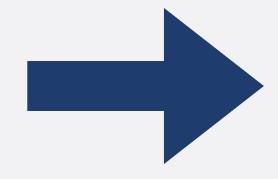
Pro-Russian
Voting Behavior

UA_PRECINCTS.CSV

| variable | description |
|-------------------|--|
| russian_tv | identifies precincts that receive Russian TV: 1=there is reception or 0=there is no reception |
| pro_russian | vote share received in the precinct by pro-Russian parties in the 2014 Ukrainian parliamentary election (in percentages) |
| prior_pro_russian | vote share received in the precinct by pro-Russian parties in the 2012 Ukrainian parliamentary election (in percentages) |
| within_25km | identifies precincts that are within 25 kilometers of the Russian border: 1=it is within 25 kilometers of the border or 0=it is not within 25 kilometers of the border |

RUSSIA AND UKRAINE

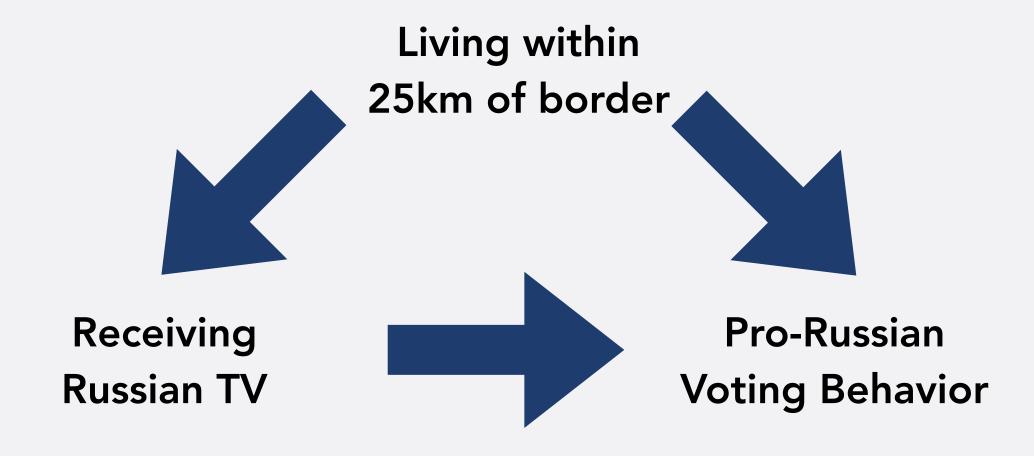
Receiving Russian TV



Change in Pro-Russian Voting Behavior

- Compute difference-in-means
- Estimate regression

RUSSIA AND UKRAINE



 Estimate regression of effect of Russian TV, controlling for living near border

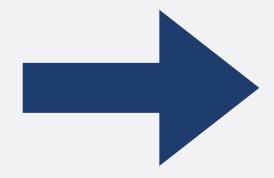
IMMIG.CSV

| Name | Description |
|-----------------|---|
| age | Age (in years) |
| female | 1 indicates female; 0 indicates male |
| employed | 1 indicates employed; 0 indicates unemployed |
| nontech.whitcol | 1 indicates non-tech white-collar work (e.g., law) |
| tech.whitcol | 1 indicates high-technology work |
| expl.prejud | Explicit negative stereotypes about Indians (continuous scale, 0-1) |
| impl.prejud | Implicit bias against Indian Americans (continuous scale, 0-1) |
| h1bvis.supp | Support for increasing H-1B visas (5-point scale, 0-1) |
| indimm.supp | Support for increasing Indian immigration (5-point scale, 0-1) |

- DV: Support for more H1B visas (h1bvis.supp)
 - From 0=decrease a great deal to 1=increase a great deal
- Main IV: Implicit bias against Indian Americans (impl.prejud)
 - From 0=low implicit prejudice to 1=high implicit prejudice

IMMIGRATION ATTITUDES

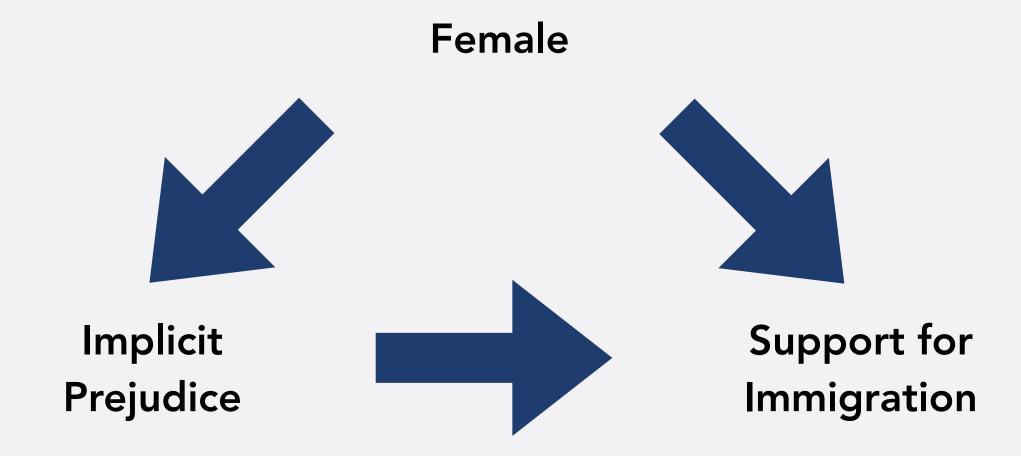
Implicit Prejudice



Support for Immigration

• Immig. Supp. = $\alpha + \beta * Impl. Prej. + \epsilon$

IMMIGRATION ATTITUDES



• Immig. Supp. = $\alpha + \beta_1$ * Impl. Prej. + β_2 * Female + ϵ

IMMIGRATION ATTITUDES

- Immig. Supp. = $\alpha + \beta_1$ * Impl. Prej. + β_2 * Female
- Immig. Supp. = 0.5 0.21 * Impl. Prej. 0.07 * Female
- Immig. Supp. = 0.5 0.21 * 0 0.07 * 1 = 0.44

EXERCISE

- Load Quality of Government data
- Create variable: Difference in literacy between men and women
 - wdi_litradm and wdi_litradf
- Run regression:
 - DV: Literacy rate difference
 - IV: Polity score (p_polity2)
- Add additional controls to regression
 - Expenditure on education as % of GDP (wdi_expedu)
 - Government effectiveness (wbgi_gee)