

PSC 400

SYRACUSE UNIVERSITY

DATA ANALYTICS FOR POLITICAL SCIENCE

MULTIPLE REGRESSION

ASSIGNMENTS

- **Review Exercise 6 due on Wednesday**
- **Data Analysis Memo 3 due on Friday**

EXAMPLE

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)

- **immig.csv**
- **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

EXAMPLE

Dear Registered Voter:

WHAT IF YOUR NEIGHBORS KNEW WHETHER YOU VOTED?

Why do so many people fail to vote? We've been talking about the problem for years, but it only seems to get worse. This year, we're taking a new approach. We're sending this mailing to you and your neighbors to publicize who does and does not vote.

The chart shows the names of some of your neighbors, showing which have voted in the past. After the August 8 election, we intend to mail an updated chart. You and your neighbors will all know who voted and who did not.

DO YOUR CIVIC DUTY – VOTE!

MAPLE DR	Aug 04	Nov 04	Aug 06
9995 JOSEPH JAMES SMITH	Voted	Voted	_____
995 JENNIFER KAY SMITH		Voted	_____
9997 RICHARD B JACKSON		Voted	_____
9999 KATHY MARIE JACKSON		Voted	_____

EXAMPLE

- **social.csv**
 - **primary2006**: 1 if voted, 0 if abstained
 - **neighbors**: 1 if received treatment, 0 if not
 - **age**: voter age in years

EXAMPLE

- **social.csv**
 - **primary2006**: 1 if voted, 0 if abstained
 - **neighbors**: 1 if received treatment, 0 if not
 - **age**: voter age in years
- **How does the effect of the neighbors treatment vary by age?**
 - Include age as well as interaction between neighbors and age in regression
 - Plot: predicted turnout by age when neighbors==1; and predicted turnout by age when neighbors==0