

# INTRODUCTORY STATISTICS LECTURE

## *Segment on Hypothesis Testing*

- Segment: three 50 minute class sessions (like IR 211 class).
- Segment after the midterm, i.e. second third of the class, when students are familiar with basic concepts such as sample, population, standard error, t-test, p-values, etc.
- Learning objective:
  - What is hypothesis testing and why is relevant?
  - How does it help us to understand statistical relationships?
  - How is it done (focus on one sample and two sample tests)?
  - What are some of the fallacies with regard to hypothesis testing?
- I assume that most students are PoliSci or IR majors.
- All mathematical examples for practicing hypothesis tests in class will be presented as cases that are either directly relevant to political science or IR, or present interesting real-world scenarios.