

POLI SCI 403

Probability and Statistics

September 20, 2024

Recommended material

Statistics

Textbooks

- Freedman, David, Robert Pisani, and Roger Purves. 2007. *Statistics*. New York, NY: Norton Accessible undergrad-level introduction
- Imai, Kosuke and Nora Web-Williams. 2022. *Quantitative Social Science: An Introduction in tidyverse*. Princeton University Press Grad-level textbook blending stats and R
- Llaudet, Elena, and Kosue Imai. 2022. *Data Analysis for Social Science: A Friendly a Practical Introduction*. Princeton University Press For complete beginners, light on the math

Regression

- Heiss, Andrew. 2024. *Program Evaluation* Step-by-step regression guide

Parametric models

Missing data

Partial identification

Causal inference in experiments

Causal inference in observational studies

Computing

Textbooks

- Hadley Wickham, Mine Çetinkaya-Rundel, and Garrett Golemund. 2023. *R for Data Science (2e)* [General introduction to R programming](#)