1. The Effects of Treatments and Causal Inference

1.1 An Overview: The Program Evaluation Framework, Causal Inference, The Selection Problem, and Parameters of Interest


1.2 Randomized Experimental Designs

1.3 Non-Experimental Methods for Estimating Treatment Effects (for Conducting Causal Inference)

1.3.1 Overview


1.3.2 **Bounding Treatment Effects**


1.3.3 **Control Function Estimators**


Cameron and Trivdei (2005), Sections 16.5-16.7


Wooldridge (2002), Section 17.4
1.3.4 Matching Methods and the Propensity Score


[http://www-personal.umich.edu/~econjeff/Papers/nsw_rejoinder 092203.pdf]


Wooldridge (2002), Chapter 18, Sections 18.1 to 18.3.

1.3.5  Regression Discontinuity

Hahn, J., P. Todd and W. van der Klaauw. 2001. “Identification and Estimation of Treatment Ef-
fects with a Regression-Discontinuity Design.” *Econometrica* 69(1), 201-09.


1.3.6 Instrumental Variable Methods


Cameron and Trivedi (2005), Sections 4.8, 4.9, 6.4, 8.3, 8.4


Wooldridge (2002), Chapter 5

1.3.7 Panel Data Methods: Fixed Effect Estimators


Cameron and Trivedi (2005), Chapter 21


1.3.8 Difference-in-Difference Methods


Cameron and Trevedi (2005), Sections 22.6 and 25.5


Wooldridge (2002), Section

1.4 Using Experimental Data to Evaluate Selection Bias and Alternative Non-Experimental Methods

Bloom, H., C. J. Hill and J. Riccio. 2005. Modeling cross-site experimental differences to find out why program effectiveness varies. In Learning more from social experiments: evolv-


1.5 **Readings for Student Presentation Topics**

1.5.1 **Difference-in-Differences Papers**


1.5.2 **Instrumental Variables Papers**


1.5.3 Evaluating Non-Experimental (and Matching) Methods with Experimental Data


1.5.4 Regression-Discontinuity Design Methods


1.5.5 **Bounding Treatment Effects**


2. **The Roy Model: The Theory of Self-Selection**


