

Syllabus

1. Introduction: What is Microeconometrics?

2. Linear Panel Data Models

2.1. Fixed and Random Effects models

2.2. Dynamic linear panel models

Refresher: Generalized Method of Moments

2.3. Models for repeated cross-sections (if time allows)

Applications: Estimation of wage equations, production/investment functions, diff-in-diff policy evaluation

3. Binary Choice Models

3.1. Linear Probability, Binary Logit and Probit models

Refresher: Maximum Likelihood

3.2. Fixed Effects Logit and Random Effects Probit models

3.3. Multivariate and Simultaneous Probit models

Applications: Female labor force participation; schooling decisions

4. Multinomial Choice Models

4.1. Multinomial and Conditional Logit models

4.2. Ordered Logit and Probit models

4.3. Count data models

Applications: Travel mode choice; demand for health care

5. Limited-Dependent Variable Models

5.1. Tobit models

5.2. Selection models and treatment effects estimation

5.3. Duration models

Applications: Demand for housing; program evaluation; duration of unemployment