Syllabus PSC 504 - Causal Inference

Profes	sor	& Term:
Room	& Tir	me:
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Email		

Overview

Prerequisites

Computation

project.org mran.revolutionanalytics.com/download/

Grading

Report on an Unpublished Article

www.r-

www.lyx.org

Counterfactuals and Causal Inference: Meth-

Final Project

Presentation and Participation

Schedule

Books

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- Mostly Harmless Econometrics: An Empiricist s Companion
- ods and Principles for Social Research

Other Useful Books and Summary Articles

- Recent Developments in the Econometrics of Program Evaluation
- Econometric Analysis of Cross Section and Panel Data
- Microeconometrics Methods and Applications

Preliminary Schedule

Introduction

The Potential Outcome Model

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- Statistics and Causal Inference
- Quality Meets Quantity: Case Studies, Conditional Probability and Counterfactuals
- Sources of Selection Bias in Evaluating Social Programs: An Interpretation of Conventional Measures and Evidence on the E ectiveness of Matching as a Program Evaluation Method
- Four parameters of interest in the evaluation of social programs

Randomized Experiments

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- Better LATE than nothing: some comments on Deaton (2009) and Heckman and Urzua (2009
 - Instruments, Randomization, and Learning about Development
- Why economists should conduct eld experiments and 14 tips for pulling one
- Natural Experiments in the Social Sciences: A Design-Based Approach
- What Do Laboratory Experiments Tell Us About the Real World?
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- Exposing Corrupt Politicians: The E ects of Brazil s Publicly Released Audits on Electoral Outcomes
- Monitoring corruption : Evidence from a eld experiment in Indonesia
- Social Pressure and Voter Turnout: Evidence from a Large Scale Field Experiment

Matching and Propensity Score

- Constitutions, Politics, and Economics: A Review Essay on Persson and Tabellinis The Economic Eects of Constitutions
- Opiates for the Matches: Matching Methods for Causal Inference
- Some practical guidance for the implementation of propensity score matching
 - Matching Methods in Practice: Three Examples
- Matching as Nonparametric Preprocessing for Reducing Model Dependence in Parametric Causal Inference
- Nonparametric Estimation of Average Treatment E ects under Exogeneity: A Review
- Matching as an econometric evaluation estimator: Evidence from evaluating a job training programme
- Reconciling con icting evidence on the performance of propensity score matching methods
- Matching Estimators of Causal E ects: Prospects and Pitfalls in Theory and Practice

Examples

- When Payouts Pay O : Conditional Cash Transfers and Voting Behavior in Brazil 2002 10
 - The Consequences of Child Soldiering

-	Are Co-Ethnics More E	ective Counter-Insurgents?	Evidence from the Secon	d
Chechen War				

- Do UN Interventions Cause Peace? Using Matching to Improve Causal Inference
- From Violence to Voting: War and Political Participation in Uganda

Regression, Clustering, Bootstrap (Week 4)

Regression

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Standard Errors (Bootstrap, Clustering)

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- Synthetic Controls (Week 6)
 - Comparative Politics and the
 - Synthetic Control Method
 - Synthetic Control Methods for Comparative Case Studies: Estimating the E ect of California s Tobacco Control Program

Examples

- The Value of Connections In Turbulent Times: Evidence from the United States
- Did the 2007 Legal Arizona Workers
 Act Reduce the State s Unauthorized Immigrant Population?

Di erences-in-Di erences (Week 7)

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 - Trust Di erences-in-Di erences Estimates?

How Much Should We

- Identi cation and Inference in Nonlinear Di erence in Di erences Models
 Inference with Di erence in Di erences and Other
- Panel Data

Examples

- Does Indiscriminate Violence Incite Insurgent Attacks? Evidence from Chechnya
 Voting Technology, Political Responsiveness, and Infant Health: Evidence
- from Brazil
- Minimum Wages and Employment: A Case Study of the Fast-Food Industry in New Jersey and Pennsylvania
- Health and Civil War in Rural Burundi

Panel Data (Week 8)

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- On the Use of Linear Fixed Eects Regression Estimators for Causal

Examples

Soap Operas and Fertility: Evidence from Brazil
 Exploiting a Rare Communication Shift to Document the Persuasive Power of the News Media
 Are Voters Sensitive to Terrorism? Direct Evidence from the Israeli Electorate

- Instrumental Variables
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Using Instrumental Variables

- Instrumental Variables Estimation in Political Science: A Readers Guide

- Instruments, Randomization, and Learning About Development
- Comparing IV with structural models: What simple IV can and cannot identify
- Better LATE than nothing: some comments on Deaton (2009) and Heckman and Urzua (2009)
- Retrospectives: Who invented Instrumental Variable Regression?

Examples

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The Colonial Origins of Com-

parative Development: An Empirical Investigation

Sensitivity Analysis

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- A Selection Bias Approach to Sensitivity Analysis for Causal E ects
- Sensitivity to Exogeneity Assumptions in Program Evaluation

Examples

- Selection on Observed and Unobserved Variables: Assessing the E ectiveness of Catholic Schools
- Aplication of Sensitivity Analysis in Matched Observational Studies