



IZA/DFID Short Course on Program Evaluation

December 19 – 20, 2015

Dhaka, Bangladesh

Organizers: David Lam (University of Michigan and IZA)
Maryam Naghsh Nejad (IZA)

Program

+++ all sessions include 20–30 minutes practical applications +++
(with technical assistance)

Saturday, December 19

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|---------------|--|
| 8:00 – 9:00 | Registration and Distribution of Learning Materials
<i>Teaching Materials</i>
<i>Stata Licenses, Installation</i> |
| 9:00 – 9:15 | Welcome and Introduction (All) |
| 9:15 – 10:30 | Kate Vyborny (Duke University)
"Impact Evaluation"
<i>Theory of Change and Outcome Variable Selection</i>
<i>Potential Outcome Framework</i>
<i>RCT and Other Identification Strategies</i> |
| 10:30 – 11:00 | Coffee Break |
| 11:00 – 12:30 | Christopher Parsons (University of Western Australia and IZA)
"Difference in Differences"
<i>Motivation and Intuition</i>
<i>Historical Example</i>
<i>Graphical Illustration and Formalization</i>
<i>DiD with Regressions</i>
<i>Practical Advice and Sensitivity Analysis</i> |

- 12:30 – 13:30 **Lunch**
- 13:30 – 15:00 **Marco Caliendo** (University of Potsdam and IZA)
"Matching I"
What Is (Propensity Score) Matching?
Estimating the Propensity Score
Overlap and Common Support
- 15:00 – 15:30 **Coffee Break**
- 15:30 – 17:00 **Marco Caliendo** (University of Potsdam and IZA)
"Matching II"
Choosing a Matching Algorithm
Assessing the Matching Quality
Effect Estimation
- 17:00 – 17:30 **Day 1 Wrap Up (All)**
- 19:00 **Dinner**

Sunday, December 20

- 8:30 – 10:00 **Kate Vyborny** (Duke University)
"Randomized Evaluations I"
How to Randomize
(Selecting a Sample; Stratification; Level of Randomization; avoiding
spillovers and Clustering; Balance Testing)
Take-up; Full vs. Partial Randomization
- 10:00 – 10:30 **Coffee Break**
- 10:30 – 12:00 **Kate Vyborny** (Duke University)
"Randomized Evaluations II"
Data Collection: From Baseline to Follow-up
(Sample size; Timing and Frequency; Attrition)
Heterogeneous Effects
Multiple Arms and Testing Mechanisms



12:00 – 13:00	<i>External Validity</i> Lunch
13:00 – 14:30	Christopher Parsons (University of Western Australia and IZA) "Regression and Discontinuity Design" <i>Motivation and Intuition</i> <i>Examples: RDD in Practice</i> <i>Sharp RDD: Formalization and Estimation</i> <i>Robustness Checks</i> <i>Fuzzy RDD: Intuition and Practice</i>
14:30 – 15:00	Coffee Break
15:00 – 16:00	Practical Implications and Concluding Remarks (All)
18:00	Dinner

Suggested Reading

Impact Evaluation: Khandker, Koowal & Samad (2010): Handbook of Impact Evaluation, Chapter 2.

Difference in Differences: Card, D. & Krueger, A.B. (1994): *Minimum Wages and Employment: A Case Study of the Fast-Food Industry in New Jersey and Pennsylvania*, the American Economic Review 84, 772–793.

Matching: Caliendo, M. & Kopeinig, S. (2008): *Some Practical Guidance for the Implementation of Propensity Score Matching*, Journal of Economic Surveys 22, 31–72.
Dehejia, R.H. & Wahba, S. (1999): *Causal Effects in Nonexperimental Studies: Reevaluation of Training Programs*, Journal of the American Statistical Association 94, 1053–1062.

Randomized Evaluations: Khandker, Koowal & Samad (2010): *Handbook of Impact Evaluation*, Chapter 3.
Duflo, E., Glennerster, R. & Kremer, M. (2006): *Using Randomization in Development Economics Research: A Toolkit*, National Bureau of Economic Research (NBER) Technical Working Paper 333.

Regression Discontinuity Design: Angrist, J.D. & Pischke, J. (2009): *Using Maimonides' Rule to Estimate the Effect of Class Size on Scholastic Achievement*, The Quarterly Journal of Economics 114, 533–575.