

Workshop: *Empirical perspective of Impact Evaluation Models: Spatial analysis and applications*

Dusan Paredes, Universidad Católica del Norte (Chile) and University of Michigan (US)
Coro Chasco, Universidad Autónoma de Madrid (España)

Syllabus:

1. Randomization
 - 1.1. Setting the counterfactual
 - 1.2. Statistical design of randomization
 - 1.3. Calculating treatment effects
 - 1.4. Treatment with pure randomization
 - 1.5. Randomization in evaluation design: Different methods of randomization
 - 1.6. Internal versus external validity
2. Propensity Score Matching (PSM)
 - 2.1. Assumptions of PSM
 - 2.2. The TOT using PSM
 - 2.3. Application of the PSM method
 - 2.4. PSM and regression-based methods
3. Difference methods
 - 3.1. Double difference
 - 3.2. Difference in difference (DD)
 - 3.3. Advantages and disadvantages of DD
4. Instrumental Variable estimation (IV)
 - 4.1. Two-Stage Least Squares approach to IVs
 - 4.2. Concerns with IV
 - 4.3. Local average treatment effects
5. Spatial specifications and applications

The Workshop will be taught in Spanish.