Economics

Spring 2017

Econometrics 281

Instructor

Kaspar Wüthrich, kwuthrich@ucsd.edu Office hour: Fr, 2:30pm-4:00pm Course Information Location: ECON 300 Time: Tu/Thu, 9:30am-10:50am

1 Course outline

The following is a tentative outline of the course.

- 1. Introduction and basic setup
- 2. Short introduction to empirical process theory
- 3. Conditional distributional treatment effects
 - Quantile regression
 - Distribution regression
- 4. Unconditional distributional treatment effects and counterfactual distributions
 - Reweighting
 - RIF regressions
 - Counterfactual distributions and distributional decompositions
- 5. Quantile models with endogeneity
 - Local quantile treatment effects
 - Instrumental variable quantile regression
 - Relationship between both approaches
- 6. Extensions (time-permitting)
 - Quantile crossing
 - Inference for quantiles with discrete distributions
 - Difference-in-differences methods
 - Sample selection
 - Censoring
 - Panel data

2 Evaluation

Your grade will be determined based on (1) a reading report for a recent econometric theory paper and (2) a presentation of the reading report. You should work in groups of two (both students will get the same grade).

- 1. Reading report: the report should contain the following elements:
 - Short description of the paper with a focus on its contribution
 - Detailed and formal yet intuitive discussion of the main result (and its proof).
 - Critical assessment of the paper focussing on strengths and weaknesses.

Format: no more more than 6 pages (12pt font).

2. Presentation: you will present the reading report in front of the class and myself. The timing of the presentation is to be determined as a function of the number of students enrolled in the course.

3 Course material

The course material will be available online via TritonEd.

4 References and Textbook

The course material is self-contained and no textbooks are required. All the referenced papers should be available via scholar.google.com when using UCSD WLAN. Please let me know if you cannot find a paper and I will send you a copy.

5 Preexisting knowledge

This course heavily builds on Econometrics 220A–220E.