

## **TSE DEEQA – Semester 2**

### **Advanced Econometrics and Empirical Economics II**

#### **1- Recent advances in panel data estimation (Thierry Magnac)**

This course aims at continuing the review of recent advances in panel data estimation in the linear and non-linear cases. The accent will be put on modelling and the consistency issues of estimates due to dynamics and nonlinearities

#### **2- Nonparametric Analysis in Discrete Choice Models (Vishal Kamat)**

This course covers some recent advancements in the econometric analysis of discrete choice models from a theoretical perspective but with lessons for practitioners. The course will broadly cover various questions of interest in discrete choice analysis such as testing random utility models, predicting choices under counterfactual choice sets and prices, and calculating welfare effects of price changes. The focus of the course will be on analyzing such questions under nonparametric assumptions which generally leads to the case of partial identification.

#### **Few references:**

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Aguirregabiria, V., and P. Mira. 2010. “Dynamic discrete choice structural models: A survey.” *Journal of Econometrics*, 156:38–67.

Arcidiacono, P., V.J. Hotz, and S. Kang. 2012. “Modeling college major choices using elicited measures of expectations and counterfactuals.” *Journal of Econometrics*, 166:3–16.

Arcidiacono, P., and R.A. Miller. 2011. “Conditional Choice Probability Estimation of Dynamic Discrete Choice Models With Unobserved Heterogeneity.” *Econometrica*, 79:1823–1867.

Keane, M.P., P.E. Todd, and K.I. Wolpin. 2011. "The Structural Estimation of Behavioral Models: Discrete Choice Dynamic Programming Methods and Applications." *Handbook of Labor Economics*,

Bai, J. (2009). Panel data models with interactive fixed effects. *Econometrica*, 77(4), 1229-1279.

Chernozhukov, V., Fernández-Val, I., Hahn, J., & Newey, W. (2013). Average and quantile effects in nonseparable panel models. *Econometrica*, 81(2), 535-580.

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Pesaran, M. H. (2006). Estimation and inference in large heterogeneous panels with a multifactor error structure. *Econometrica*, 74(4), 967-1012.

Bhattacharya, Debopam. "Nonparametric welfare analysis for discrete choice." *Econometrica* 83.2 (2015): 617-649.

Kamat, Vishal. "Identification with latent choice sets." *arXiv preprint arXiv:1711.02048* (2018).

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Manski, Charles F. "Partial identification of counterfactual choice probabilities." *International Economic Review* 48.4 (2007): 1393-1410.

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