

# WORKSHOP ON ECONOMETRIC THEORY AND APPLICATIONS

UNIVERSITY OF SIENA

DEPARTMENT OF ECONOMICS AND STATISTICS

SIENA, JUNE 22-23, 2023

## THURSDAY, 22 JUNE 2023

8:15-10:00 REGISTRATION

9:00-9:15 WELCOME SPEECH

**Salvatore Bimonte** (U of Siena) Head of the Department of Economics and Statistics

**Michelangelo Vasta** (U of Siena) Rector's Delegate for Research

9:15-10:05 SESSION 1

**David Pacini** (U of Bristol) *Bias and Variance of Estimators in the Presence of Hellinger Speedless Points*

**Stanislav Anatolyev** (CERGE-EI, NES) *Many Instruments under Data Clustering* with Maksim Smirnov

10:05-10:30 COFFEE BREAK

10:30-11:30 KEYNOTE LECTURE

**Anna Mikusheva** (MIT) *Linear Regression with Weak Exogeneity* with Mikkel Sølvsten

11:30-12:20 SESSION 2

**Thomas Carr** (Brown U) *Testing Instrument Validity with Covariates* with Toru Kitagawa

**Zhenhong Huang** (U of Hong Kong) *Assessing the Strength of many Instruments with the First-stage F and Cragg-Donald Statistics* with Chen Wang and Jianfeng Yao

12:20-13:20 LUNCH

13:20-14:20 POSTER SESSION

**Lorenzo Casini** (IMT Lucca) *Ill-defined Variables and Instrument Validity* with Alessio Moneta

**Federico Crudu** (U of Siena) *Jackknife Instrumental Variable Inference* with Giovanni Mellace and Zsolt Sándor

**Petru Crudu** (Ca' Foscari U of Venice) *Long-term Effects of Early Adverse Labour Market Conditions: A Causal Machine Learning Approach*

**Roberta Di Stefano** (Sapienza U of Rome) *The Inclusive Synthetic Control Method* with Giovanni Mellace

14:20-15:10 SESSION 3

**Tom Boot** (U of Groningen) *Identification- and Many Instrument-robust Inference via Invariant Moment Conditions* with Johannes W. Ligtenberg

**Igor L. Kheifets** (U of Klagenfurt) *Robust High-Dimensional IV Cointegration Estimation and Inference* with Peter C. B. Phillips

15:35-16:25 SESSION 4

**Andrea A. Naghi** (Erasmus U and Tinbergen Institute) *The Value Added of Machine Learning to Causal Inference: Evidence from Revisited Studies* with Anna Baiardi

**Alejandro Sánchez-Becerra** (Emory U QTM) *Robust Inference for the Treatment Effect Variance in Experiments Using Machine Learning*

ORGANIZERS **Federico Crudu** (U of Siena), **Giovanni Mellace** (U of Southern Denmark), **Zsolt Sándor** (Sapientia Hungarian U of Transylvania)

## FRIDAY, 23 JUNE 2023

9:15-10:05 SESSION 5

**Ashish Patel** (U of Cambridge) *Selecting Invalid Instruments to Improve Mendelian Randomization with Two-sample Summary Data* with Francis J. Di-Taglia, Verena Zuber and Stephen Burgess

**Elisabetta De Cao** (U of Bologna) *Gene-Environment Effects on Female Fertility* with Nicola Barban and Marco Francesconi

10:05-10:30 COFFEE BREAK

10:30-11:30 KEYNOTE LECTURE

**Jochen Mierau** (U of Groningen, Lifelines, U Medical Centre Groningen) *Lifestyle, Socioeconomic Differences, and Health Policy*

11:30-12:20 SESSION 6

**Michael Bates** (U of California Riverside) *Estimating the Price Elasticity of Gasoline Demand in Correlated Random Coefficient Models with Endogeneity* with Seolah Kim

**Daniel Gutknecht** (Goethe U Frankfurt) *Distributional Difference-in-Differences for Underreported Discrete Outcomes* with Cenchen Liu

12:20-13:20 LUNCH

13:20-14:20 POSTER SESSION

**Simon Lloyd** (Bank of England) *Controls, Not Shocks: Estimating Dynamic Causal Effects in the Face of Confounding Factors* with Ed Manuel

**Alexander O. K. Marin** (U of Southern Denmark, CPop) *The Simultaneous Causal Effects Between Hospital Expenditures and Social Care Expenditures* with Malene Kallestrup-Lamb and Jes Søgaard

**Hamdi Raïssi** (Instituto de Estadística, PUCV) *On the Correlation Analysis of Stocks with Zero Returns*

**Renan Serenini** (Sapienza U of Rome) *A Spatial Extension of Synthetic Difference-in-Differences* with Frantisek Masek

**Anton Skrobotov** (Imperial College Business School) *New Approaches to Robust Inference on Market (Non-) Efficiency, Volatility Clustering and Nonlinear Dependence* with Rustam Ibragimov and Rasmus Søndergaard Pedersen

14:20-15:10 SESSION 7

**Nadja van't Hoff** (U of Southern Denmark) *Limited Monotonicity and the Combined Compliers LATE* with Arthur Lewbel and Giovanni Mellace

**Riccardo D'Adamo** (U College London) *Auxiliary IV Estimation for Nonlinear Models* with Martin Weidner and Frank Windmeijer

15:10-15:35 COFFEE BREAK

15:35-16:25 SESSION 8

**Silvia Tiezzi** (U of Siena) *Egg when Young, Chicken when Old? Time Consistency and Addiction over the Life Cycle* with Luca Piccoli

**Elena Dal Torrone** (Tor Vergata U of Rome) *Regression Discontinuity Designs Under Interference* with Tiziano Arduini and Laura Forastiere

