Michele Aquaro

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Employment

Research Fellow, European Commission, 2017–present

Postdoctoral teaching fellow, University of Warwick, 2013–2017

Postdoctoral research associate, University of Cambridge, 2012/13

Education

Ph.D. in Economics, econometric track, Tilburg University, 2013

Research Master in Economics, econometric track, Tilburg University, 2009

M.Sc. in Economics, Università degli Studi di Siena, 2009

M.Sc. in Econometrics and Operation Research, Tilburg University, 2008

Visiting student, Faculty of Economics, Goethe Universität Frankfurt, 2006

B.Sc. in Economics, Università degli Studi di Siena, 2004

Field of specialization

Econometrics, in particular methods for panel data (static and dynamic linear models, cross-sectional dependence, large heterogeneous panels). I also have an interest in Robust Statistics, that is in estimation methods that are robust to outlying observations.

Publications

M. Aquaro, N. Bailey and M. H. Pesaran. 2021. "Estimation and inference for spatial models with heterogeneous coefficients: An application to US house prices". *Journal of Applied Econometrics* 36 (1): 18–44. doi:https://doi.org/10.1002/jae.2792

P. Čížek and **M. Aquaro**. 2018. "Robust estimation and moment selection in dynamic fixed-effects panel data models". *Computational Statistics* 33 (2): 675–708. doi:10.1007/s00180-017-0782-7

M. Aquaro and P. Čížek. 2014. "Robust estimation of dynamic fixed-effects panel data models". *Statistical Papers* 55 (1): 169–186. doi:10.1007/s00362-013-0545-7

M. Aquaro and P. Čížek. 2013. "One-step robust estimation of fixed-effects panel data models". *Computational Statistics & Data Analysis* 57 (1): 536–548. doi:https://doi.org/10.1016/j.csda.2012.07.003

Working papers

M. Aquaro, F. Belotti, I. Johnsson and G. Millo. n.d. *Estimation and inference for spatial models with heterogeneous coefficients in MATLAB, Python, R, and Stata.* Submitted

M. Aquaro, G. Damioli and B. Lengyel. n.d. *Innovative Mergers & Acquisitions and the integration of European regions.* Submitted

Work in progress

M. Aquaro, C. Badarinza and I. Johnsson. n.d. "The Informational Role of Housing Market Liquidity"

Conference and seminar presentations

2019: 25th International Panel Data Conference, Vilnius, LT. 6th Annual Conference of the International Association for Applied Econometrics (IAAE), Nicosia, GY.

2018: 1st Italian Workshop of Econometrics and Empirical Economics (IWEEE): panel data models and applications, Milan, IT. Asian Meeting of the Econometric Society (AMES), Seoul, SK.

2016: Warwick Econometrics Summer Workshop, Coventry, UK. IX World Conference of the Spatial Econometrics Association (SEA), Rome, IT.

2015: Annual Conference of the International Association for Applied Econometrics (IAAE), Thessaloniki, GR.

2013: CERGE-EI, Prague, CZ. Cross-sectional dependence in panel data models, Cambridge, UK.

2012: 18th International Panel Data Conference, Paris, FR. 7th Netherlands Econometric Study Group (NESG) conference, Groeningen, NL. Tilburg University, Tilburg, NL.

Computer experience

Julia, Matlab, R and Stata (most used languages)

Teaching

University of Warwick, Department of Economics

- EC338 Econometrics 2: microeconometrics (lecturer), 2013/14–2016/17
- EC961 Introductory mathematics and statistics (lecturer), 2014/15–2016/17
- EC9A3 Advanced econometric theory (class tutor), 2013/14–2015/16
- EC910 Econometrics B (class tutor), 2013/14–2016/17
- EC331 Undergraduate dissertation (supervisor), 2013/14–2016/17
- EC959 Postgraduate dissertation (supervisor), 2013/14–2016/17

University of Warwick, Warwick Business School

- EC976 Econometrics, MFSE degree course (class tutor), 2013/14–2016/17

Tilburg University, Department of Econometrics

- Introduction to econometrics (teaching assistant), 2009/10–2011/12
- Statistics (teaching assistant), 2010/11
- Panel data analysis of microeconomic decision (teaching assistant), 2008/09

Others

- Warwick economic summer school: microeconometrics (lecturer), 2015, 2016

Syllabi (main modules only):

EC338 Econometrics 2: Microeconometrics (Together with Claire Crawford). This is a third-year advanced undergraduate module in microeconometrics attended by a relatively small group of self-selected students. The module is divided into two parts. In the first part, estimation methods of causal effects and policy evaluation are presented (the Rubin potential outcome model, selection bias, regression analysis, regression discontinuity, difference-in-differences method). The second part deals with the notion of causality with observational data and nonlinear models (binary response outcomes, corner solutions, sample selection).

EC910 Econometrics B: Microeconometrics (Lecturer: Wiji Arulampalam). This is an advanced postgraduate module in microeconometrics. It focuses on the most popular linear and nonlinear models in microeconometrics, and on how to address the issue of endogeneity in these models. The analysis is at the level of Wooldridge (2010), or Cameron and Trivedi (2005).

EC9A3 Advanced Econometric Theory (Lecturer: Clement de Chaisemartin). This is a rigorous, PhD-level module in modern microeconometrics. The following topics are covered: Causality, selection, and randomized experiments; Estimating estimands: large sample theory; The OLS regression estimand; The OLS regression estimator; Regression and causality; M-estimation and the generalized method of moments; The two-stage least squares estimand, and its estimator; The two-stage least squares and causality in the linear and constant effect model; The two-stage least squares and causality with heterogeneous effects.

Awards

Tilburg University scholarship programme, in recognition of the status of excellent student, 2008

Graduate-level scholarship, 2007

Erasmus scholarship, master thesis abroad, Goethe Universität, Frankfurt am Main, 2006

Socrates intensive programme *Labour movements and corporate location strategies withe the European Uninion*, Université de Poitiers, 2006

Professional experience

Research assistant, Netspar (Prof. A.H.O. van Soest), 2008/09