Michele Aquaro

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Last update: November 2025

Employment

- Postdoctoral research fellow, University of Luxembourg, 2023–present
- Research fellow, European Commission, 2017–2023
- Postdoctoral teaching fellow, University of Warwick, 2013–2017
- Postdoctoral research associate, University of Cambridge, 2012–2013

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 (theory and applied), with focus on micro-econometrics, panel data methods, and labour. I also have an interest in robust statistics.

Job market paper

- **M. Aquaro**, R. Okui and W. Wang. n.d. *Detecting structural breaks in panel data models of social interactions with unknown networks*

Work in progress

- "Another look at the intergenerational transmission of employers: evidence from Danish administrative data", with Paul Bingley, Lorenzo Cappellari, and Konstantinos Tatsiramos

- "Outlier-robust difference-in-differences", with Mikhail Zhelonkin

Publications

- **M. Aquaro**, G. Damioli and B. Lengyel. 2023. "Innovative mergers and acquisitions and the broker regions of European integration". *Regional Studies* 57 (2): 287–299. https://doi.org/10.1080/00343404.2021.1998418

- **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. 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. https://doi.org/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. https://doi.org/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. https://doi.org/10.1016/j.csda.2012.07.003

Permanent working papers

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

Conference and seminar presentations

- 2025: Luxembourg Institute of Socio-Economic Research (LISER); University of Pavia.
- 2024: Workshop on Recent Advances in Panel and Network Data, University of Oxford, UK.
- 2023: Bristol Econometrics Study Group, Bristol, UK.
- 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, University of 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 (advanced)
- Mata, Python (used occasionally)
- Shell scripting (proficient)

Teaching

- University of Luxembourg
  - (MSc) 2D2 Econometrics II: causal analysis (lecturer), 2024/25–2025/26
- University of Warwick, Department of Economics
  - (BSc) EC338 Econometrics 2: microeconometrics (lecturer), 2013/14–2016/17
  - (MSc) EC961 Introductory mathematics and statistics (lecturer), 2014/15–2016/17
  - (PhD) EC9A3 Advanced econometric theory (class tutor), 2013/14–2015/16
  - (MSc) EC910 Econometrics B (class tutor), 2013/14–2016/17
  - (BSc) EC331 Undergraduate dissertation (supervisor), 2013/14–2016/17
  - (MSc) EC959 Postgraduate dissertation (supervisor), 2013/14–2016/17
- University of Warwick, Warwick Business School
  - (MSc) EC976 Econometrics, Master in Finance and Economics (class tutor), 2013/14–2016/17
- Tilburg University, Department of Econometrics
  - (BSc) Introduction to econometrics (teaching assistant), 2009/10–2011/12
  - (BSc) Statistics (teaching assistant), 2010/11
  - (MSc) Panel data analysis of microeconomic decision (teaching assistant), 2008/09
- Others

  - Warwick economic summer school: microeconometrics (lecturer), 2015, 2016
- Syllabi (main modules only):
  - 2D2 Econometrics II, Master in Finance and Economics. Randomised experiments; regression-discontinuity design; instrumental variables; difference-in-differences; panel data.
  - EC338 Econometrics 2: Microeconometrics (Together with Claire Crawford). This was a third-year advanced undergraduate module in microeconometrics attended by a relatively small group of self-selected students. The module was divided into two parts. In the first part, estimation methods of causal effects and policy evaluation were presented (the Rubin potential outcome model, selection bias, regression analysis, regression discontinuity, difference-in-differences method). The second part dealth with the notion of causality with observational data and nonlinear models (binary response outcomes, corner solutions, sample selection).
  - EC9A3 Advanced Econometric Theory (Lecturer: Clement de Chaisemartin). This was a rigorous, PhD-level module in modern microeconometrics. The following topics were 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.
  - EC910 Econometrics B: Microeconometrics (Lecturer: Wiji Arulampalam). This was an advanced postgraduate module in microeconometrics. It focused on the most popular linear and nonlinear models in microeconometrics, and on how to address the issue of endogeneity in these models. The analysis was at the level of Wooldridge (2010), or Cameron and Trivedi (2005).
  - EC976 Econometrics, Master in Finance and Economics. STATA tutorials on: linear regression; heteroskedasticity; functional forms; instrumental variables; regression-discontinuity design; panel data; difference-in-differences; time-series (basic and advanced).

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 with the European Union*, Université de Poitiers, 2006