

FEDERICO TAMAGNI

Full Professor - Scuola Superiore Sant'Anna, Pisa, Italy

Personal info and contact

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ACADEMIC ACTIVITIES

INSTITUTIONAL POSITIONS AND SERVICES

Current positions:

Full Professor of Economics, Scuola Superiore Sant'Anna, Pisa, Italy.

December 2014 - December 2021

Associate Professor of Economics, Scuola Superiore Sant'Anna, Pisa, Italy.

December 2017 - March 2021

Coordinator of the PhD in Economics, Scuola Superiore Sant'Anna, Pisa, Italy.

May 2013 - December 2014

Assistant Professor, Universitas Mercatorum, Rome, Italy.

2010 - 2017

Coordinator of the Econometrics modules (General Econometrics, Time Series Analysis, Microeconomics) - International Doctoral Program in Economics, Scuola Superiore Sant'Anna, Pisa, Italy.

March 2010 - May 2013

Assistant Professor, Scuola Superiore Sant'Anna, Pisa, Italy.

July 2006 - February 2010

Research Fellow - LEM (Laboratory of Economics and Management), Scuola Superiore Sant'Anna, Pisa, Italy.

May 2007 - July 2007

Visiting Fellow - Center for Innovation, Knowledge and Development, The Open University, UK.

May 2004 - July 2004

Research Fellow - Frei Universitat, Bolzano. Project title: "On the statistical properties of international capital flows".

TEACHING

Spring term 2023/24: Industrial and Innovation Dynamics - Master in Economics, University of Pisa and Scuola Superiore Sant'Anna.

Fall term 2023/24: Innovation and Firm Growth - Master level, Scuola Superiore Sant'Anna, Pisa.

Fall term 2023/24: Applied Econometrics - Master level, Scuola Superiore Sant'Anna, Pisa.

Spring term 2022/23: Industrial and Innovation Dynamics - Master in Economics, University of Pisa and Scuola Superiore Sant'Anna.

Fall term 2022/23: Applied Econometrics - Master level, Scuola Superiore Sant'Anna, Pisa.

Spring term 2021/22: Industrial Economics - Master in Economics, University of Pisa and Scuola Superiore Sant'Anna.

Fall term 2021/22: Applied Econometrics - Master level, Scuola Superiore Sant'Anna, Pisa.

Spring term 2020/21: Industrial Economics - Master in Economics, University of Pisa and Scuola Superiore Sant'Anna.

Spring term 2020/21: Theories of the firm and firm growth - Master level, University of Pisa and Scuola Superiore Sant'Anna.

Fall term 2020/21: Applied Econometrics - Master level, Scuola Superiore Sant'Anna, Pisa.

Spring term 2019/20: Industrial Economics - Master in Economics, University of Pisa and Scuola Superiore Sant'Anna.

Spring term 2019/20: Econometrics Lab - Master level, Scuola Superiore Sant'Anna.

Fall term 2019/20: Microeconometrics - Master level, Scuola Superiore Sant'Anna, Pisa.

Spring term 2018/19: Econometrics Lab - Master level, Scuola Superiore Sant'Anna, Pisa.

Spring term 2018/19: Firm-industry dynamics - PhD in Economics, Scuola Superiore Sant'Anna, Pisa.

Spring term 2018/19: Economic Policy - Master in Economics, University of Pisa and Scuola Superiore Sant'Anna.

Fall term 2018/19: Microeconometrics - Master level, Scuola Superiore Sant'Anna, Pisa.

Spring term 2017/18: Econometrics Lab - Master level, Scuola Superiore Sant'Anna, Pisa.

Spring term 2017/18: Introductory Econometrics, PhD in Management, University of Pisa.

Spring term 2017/18: Empirics of firm-industry dynamics - PhD in Economics, Scuola Superiore Sant'Anna, Pisa.

Fall term 2017/18: Microeconometrics - Master level, Scuola Superiore Sant'Anna, Pisa.

Spring term 2016/17: Industrial Dynamics - PhD in Economics, Scuola Superiore Sant'Anna, Pisa.

Spring term 2016/17: Economic Policy - Master in Economics, University of Pisa and Scuola Superiore Sant'Anna.

Fall term 2016/17: Microeconometrics - Master level, Scuola Superiore Sant'Anna, Pisa.

Fall term 2016/17: Econometrics of firm-industry dynamics - Master level, Scuola Superiore Sant'Anna, Pisa.

Spring term 2015/16: Economic Policy - Master in Economics, University of Pisa and Scuola Superiore Sant'Anna.

Spring term 2015/16: Industrial Dynamics - International Doctoral Program in Economics, Scuola Superiore Sant'Anna, Pisa.

Spring term 2015/16: Econometrics of firm dynamics - Master students, Scuola Superiore Sant'Anna, Pisa.

Winter term 2015/16: Micro and panel data econometrics - Master level, Scuola Superiore Sant'Anna, Pisa.

Spring term 2014/15: Industrial Dynamics - International Doctoral Program in Economics, Scuola Superiore Sant'Anna, Pisa.

Spring term 2014/15: Micro and panel data econometrics - Master level, Scuola Superiore Sant'Anna, Pisa.

Spring term 2013/14: Economics and Policy (Politica Economica) - Master level, Universitas Mercatorum, Rome, Italy.

Spring term 2013/14: Micro and panel data econometrics - Master level, Scuola Superiore Sant'Anna, Pisa.

Spring term 2012/13: Topics in Industrial Dynamics - Master level, University of Perugia.

Spring term 2012/13: Microeconometrics - Undergrad level, Scuola Superiore Sant'Anna, Pisa.

Spring term 2009/10: Data analysis and econometric modeling in STATA - Undergrad level, Scuola Superiore Sant'Anna, Pisa.

Fall term 2008/09: Introduction to econometric modeling in STATA - Undergrad level, Scuola Superiore Sant'Anna, Pisa.

RESEARCH PROJECTS AND GRANTS

2023-present: *Data Driven Innovation. Measuring its Effects on Industries, Firms, and Business Models*, financed by MIUR-PRIN. Local unit coordinator.

2022-present: *GREEN-DIGIT - Understanding the twin transition in the economy and society*, financed by MIUR under PNRR initiatives. Principal Investigator.

2019-2022: *GROWINPRO - Growth, Welfare, Innovation and Productivity*, financed under EU-H2020 Programme (Principal Investigator: Prof. Andrea Roventini). Project member and coordinator of Empirics Group.

2015-2018: *ISIGrowth - Innovation-fuelled, Sustainable, Inclusive Growth*, financed by EU H2020 Programme (Principal Investigator: Prof. Giovanni Dosi). Project member

2010-2012: *The Evolutionary Paths Toward the Financial Abyss and the Endogenous Spread of Financial Shocks into the Real Economy*, financed by Institute for New Economic Thinking (INET) Starting Grant (Principal Investigator: Prof. Giovanni Dosi). Project member

2009-2012: *FINNOV - Finance, Innovation and Growth*, financed by European Commission, 7th FP - Project member.

2006-2010: *DIME - Dynamics of Institutions and Markets in Europe*. Financed by European Commission, 6th FP. Project member

2006: *CO3 - Common Complex Collective Phenomena in Statistical Mechanics, Society, Economics, and Biology*. Financed by European Commission, 6th FP. Project member

2010-2013: *The growth of firms and countries: distributional properties and economic determinants*. Financed by Italian Ministry of University and Research, PRIN Project 2009. Project member
Research Grant (FONDI D'ATENEO) in 2010, 2011, 2012, 2015. Financed by Scuola Superiore Sant'Anna, Pisa, Italy. Project coordinator

SEMINARS, CONFERENCES AND INVITED TALKS

June 2024 - DRUID Conference, SKEMA Business School, Nice, France. Paper presentation.

June 2023 - DRUID Conference, NOVA School, Lisbon, Portugal. Paper presentation.

October 2021 - DRUID Conference, Copenhagen Business School, Denmark. Paper presentation.

June 2019 - EMAEE 2019, SPRU-University of Sussex, UK. Paper presentation.

June 2019 - DRUID Conference, Copenhagen Business School, Denmark. Paper presentation and best paper nominee.

May 2019 - Empirical Workshop on Standardization, Northwestern University, Chicago, USA. Paper presentation.

December 2017 - Second ASTRIL International Conference: Technology, Employment and Labour Market Institutions, University of Rome 3, Rome, Italy. Paper presentation.

September 2017 - EPIP2017, University of Bordeaux, France. Paper presentation.

July 2017 - SASE Conference, University of Lyon, France. Paper presentation and session chair.

June 2017 - DRUID Conference, Stern School of Business, NYU-New York University, USA. Paper presentation.

June 2017 - EMAEE 2017, University of Strasbourg, France. Paper presentation.

December 2016 - ICC Conference: Beyond Technological Innovation and Diffusion, UC Berkeley, USA. Paper presentation.

September 2016 - SPRU50 Anniversary conference, University of Sussex, UK. Session chair.

August 2016 - Annual Congress of the European Economic Association, Geneva, Switzerland. Paper presentation.

November 2015 - IP Statistics for Decision Makers 2015, Vienna, Austria. Paper presentation.

June 2015 - University of Trento, Italy. Invited seminar.

May 2015 - WEHIA Conference, Nice-Sophia Antipolis, France. Paper presentation.

March 2015 - Faculty of Economics, University of Ancona, Italy. Invited seminar.

August 2014 - Annual Conference of the European Association for Research in Industrial Economics (EARIE), Bocconi University, Milan, Italy. Paper presentation.

July 2014 - 15th Meeting of the International Schumpeter Society, Jena, Germany. Paper presentation and session chair.

June 2014 - "International IO Workshop: Theory, Empirics and Experiments", University of Salento, Italy. Paper presentation.

June 2014 - "Governance of Complex World-GCW2014", University of Turin, Italy. Paper presentation.

June 2013 - DRUID Conference, Barcelona, Spain. Paper presentation.

June 2013 - EMAEE Conference, Nice-Sophia Antipolis, France. Paper presentation.

April 2013 - DSE Cagnetti de Martiis, University of Turin, Italy, invited seminar.

September 2012 - 2012 Workshop of the International Study Group on Export and Productivity, Stockholm, Sweden. Paper presentation.

March 2012 - 5th Austrian Workshop on Empirical Industrial Organization, Austrian Institute of Economic Research (WIFO), Wien, Austria. Invited talk.

June 2011 - International conference "VICO Project, EU 7th FP, Final Conference - Entrepreneurial finance: the real impact", Stresa, Italy. Paper presentation.

April 2011 - International conference "DIME Project, EU 6th FP - Final Conference", UNU-MERIT & School of Economics and Business, Maastricht University, The Netherlands. Paper presentation.

January 2011 - International conference "The demography of firms and industries", University of Paris-Creteil, France. Paper presentation.

December 2010 - International Workshop "Financial Constraints, Firm and Aggregate Dynamics", Sophia-Antipolis, France. Paper presentation.

September 2010 - Annual Conference of the European Association for Research in Industrial Economics (EARIE), Istanbul, Turkey. Paper presentation.

August 2010 - Annual Congress of the European Economic Association, Glasgow, Scotland. Paper presentation.

June 2010 - 13th Meeting of the International Schumpeter Society, Aalborg, Denmark. Paper pre-

sentation.

December 2009 - International Workshop “DIME Project, EU 6th FP - Markets and Firms Dynamics: from micro patterns to aggregate behaviors”, Point-a-Pitre, French Guadelupe. Session chair.

August 2008 - Annual Congress of the European Economic Association, Milan, Italy. Paper presentation.

May 2008 - Annual International Industrial Organization Conference, Arlington, VA, US. Paper presentation.

April 2008 - International conference “DIME Project, EU 6th FP - First Scientific Conference”, BETA-Louis Pasteur University, Strasbourg, France. Paper presentation.

May 2007 - Center for Innovation, Knowledge and Development (IKD), The Open University, UK. Invited seminar.

April 2007 - Annual International Industrial Organization Conference, Savannah, GA, US. Paper presentation.

ORGANIZATION OF CONFERENCES/WORKSHOPS

February 2015 - Empirics Meeting of the EU-H2020 project “ISIGrowth: Innovation-fuelled, Sustainable, Inclusive Growth”, Scuola Sant’Anna, Pisa.

October 2013 - Final Workshop of the MIUR-PRIN Project “The Growth of Firms and Countries”, Villa Massenzia-Unimercuratorum, Rome, Italy.

October 2008 - The Dynamics of Firm Evolution: Productivity, Profitability and Growth, Scuola Superiore Sant’Anna, Pisa, Italy.

September 2006 - RESEARCH in ECONOMICS: Reappraising Economics as an Empirically Disciplined Science, Scuola Superiore Sant’Anna, Pisa, Italy.

REFeree ACTIVITY

Referee for: *Research Policy*, *Small Business Economics*, *Journal of Economic Dynamics and Control*, *Regional Studies*, *Industrial and Corporate Change*, *Labour Economics*, *International Journal of Industrial Organization*, *Review of Industrial Organization*, *Applied Economics*, *Journal of Evolutionary Economics*, *Journal of Empirical Finance*, *Structural Change and Economic Dynamics*, *Journal of Economic Interactions and Coordination*, *Economics of Innovation and New Technology*, *Applied Economics Letters*.

Editorial Review Board of *Small Business Economics*

External reviewer for the Panel “Humanities and Social Sciences”, Research Grant Council of Hong Kong, and for the National Science Center of Poland.

PUBLICATIONS

ARTICLES and CHAPTERS in refereed journals and collections

In English:

Cirillo, V., M.Sostero and F. Tamagni (2024), “Firm-level bargaining and within-firm wage inequality: Evidence across Europe”, *International Labour Review*, forthcoming.

- Tamagni, F., “Productivity, Profitability and Firm Growth: Dissecting the Empirics of Market Selection”, in Cantner U., Guerzoni M. and S.Vannuccini (eds.) *Handbook of Research Methods and Applications in Industrial Dynamics and Evolutionary Economics*, forthcoming.
- Guerzoni, M., M. Nuccio and F. Tamagni (2024), “Pre-entry knowledge base complexity and post-entry growth: evidence from Italian firms”, *Industrial and Corporate Change*, 33, 126-151.
- Bottazzi, G., T. Kang and F. Tamagni (2023), “Persistence in firm growth: inference from conditional quantile transition matrices”, *Small Business Economics*, 61, 745-770.
- De Santis, S., J. Reljic and F. Tamagni (2022), “Productivity dynamics in Italy: learning and selection”, *ISTAT-Review of Official Statistics*, 1, 9-31.
- Bekkers, R., A. Martinelli and F. Tamagni (2020), “The impact of including standards-related documentation in patent prior art: evidence on an EPO policy change”, *Research Policy*, 49(7).
- Dosi, G., M. Grazzi, D. Moschella, G. Pisano and F. Tamagni (2020), “Long-term firm growth: an empirical analysis of US manufacturing 1959-2015”, *Industrial and Corporate Change*, 29(2), 309-332.
- Guarascio, D., and F. Tamagni (2019), “Persistence of innovation and patterns of firm growth”, *Research Policy*, 48(6), 1493-1512.
- Moschella, D., F. Tamagni and X. Yu (2019), “Persistent high-growth firms in China’s manufacturing”, *Small Business Economics*, 52(3), 573-594.
- Bianchini, S., Pellegrino G. and F. Tamagni (2018), “Innovation Complementarities and Firm Growth”, *Industrial and Corporate Change*, 27(4), 657-676.
- Cirillo, V., M. Sostero and F. Tamagni (2017), “Innovation and within-firm wage inequalities: empirical evidence from major European countries”, *Industry and Innovation*, 24(5), 468-491.
- Bianchini, S., G. Bottazzi and F. Tamagni (2017), “What does (not) characterize persistent corporate high-growth?”, *Small Business Economics*, 48(3), 633-656.
- Secchi, A., F. Tamagni and C. Tomasi (2016), “Export Price Adjustments under financial constraints”, *Canadian Journal of Economics*, 49(3), 1057-1085.
- Secchi, A., F. Tamagni and C. Tomasi (2016), “Financial constraints and firm exports: accounting for heterogeneity, self-selection and endogeneity”, *Industrial and Corporate Change*, 25(5), 813-827.
- Dosi, G., D. Moschella, E. Pugliese and F. Tamagni (2015), “Productivity, market selection and corporate growth: comparative evidence across US and Europe”, *Small Business Economics*, 45(3), 643-672.
- Bottazzi, G., D. Pirino and F. Tamagni (2015), “Zipf Law and the Firm Size Distribution: a critical discussion of popular estimators”, *Journal of Evolutionary Economics*, 25(3), 585-610.
- Bottazzi, G., A. Secchi and F. Tamagni (2014), “Financial Constraints and Firm Dynamics”, *Small Business Economics*, 42(1), 99-116.
- Secchi, A., F. Tamagni and C. Tomasi (2014), “The micro patterns of export diversification under financial constraints”, *Industrial and Corporate Change*, 23(6), 1595-1622.
- Bottazzi, G., and F. Tamagni (2011), “Big and Fragile: When Size does not Shield from Default”, *Applied Economics Letters*, 18(14), 1401-1404.
- Bottazzi, G., M. Grazzi, A. Secchi and F. Tamagni (2011), “Financial and Economic Determinants of Firm Default”, *Journal of Evolutionary Economics*, 21(3), 373-406.
- Coad A., R. Rao and F. Tamagni (2011), “Growth Processes of Italian Manufacturing Firms”, *Struc-*

tural Change and Economic Dynamics, 22(1), 54-70.

Bottazzi, G., G. Dosi, N. Jacoby, A. Secchi e F. Tamagni (2010), "Corporate performances and market selection. Some comparative evidence", *Industrial and Corporate Change*, 19(6), 1953-1996.

Bottazzi, G., A. Secchi and F. Tamagni (2008), "Productivity, Profitability and Financial Performance", *Industrial and Corporate Change*, 17(4), 711-751.

Di Maio M. and F. Tamagni (2008), "The evolution of world export sophistication and the Italian trade anomaly", *Rivista di Politica Economica*, 98(1), January-February, 135-174.

In Italian:

Secchi, A., and F. Tamagni (2009), "Un'analisi empirica delle relazioni tra crescita d'impresa, produttività e profittabilità", in Laura Rondi and Francesco Silva (eds.) *Produttività e cambiamento nel sistema produttivo italiano. Indagini Quantitative*: Il Mulino, Bologna.

Di Maio, M., and F. Tamagni (2008), "L'anomalia del modello di specializzazione italiano e l'evoluzione del commercio internazionale: una analisi quantitativa", *QA-Rivista Associazione Rossi-Doria*, n.3/4, 79-103.

Other publications

Author of the following entries in *Enciclopedia Treccani, Dizionario di Economia e Finanza*, F. Kistoris (ed.), 2012: "Diffusion", "Input/output models and tables", "Market power", "Technical change", "Profit", "Technology", "Returns to scale".

EDUCATION

September 2003 - September 2007

PhD In Economics and Management - Scuola Superiore Sant'Anna, Pisa, Italy.

Thesis title: *An Empirical Analysis of Firm Structure and Performance: Bridging Economic Dynamics and Financial Conditions*

Advisors: Giulio Bottazzi and Giovanni Dosi

Dissertation Committee: Eric J. Bartelsman, Uwe Cantner, Mariana Mazzucato

September 1998 - April 2003

Laurea Degree in Economics - Bocconi University, Milan, Italy.

Thesis title: *Toward a New International Financial Architecture: Which Mechanism for Sovereign Debt Restructuring ?*.

Advisor: Franco Bruni

Final Result: 110/110 cum laude

SOFTWARE and PROGRAMMING

Contributor to the "GBUTILS" (<http://www.cafed.sssup.it/giulio/software/gbutils/index.html>), an open source software package for parametric and non-parametric statistical analysis.

Operating systems: Linux, UNIX, Windows

Statistical packages: Matlab, STATA, R, SAS, E-Views.

Code programming: C++, Python, Sed, Awk

Applications: MS Office, LaTeX, OpenOffice, GnuPlot

Spreadsheets: Excel, Access