

MAURO NAPOLETANO

Date of Birth : 7 November 1977. Place of Birth : Locorotondo (Bari, Italy).

Nationality : Italian.

Senior Economist

OFCE-Sciences Po

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Current Affiliations

OFCE-Sciences Po (main affiliation) & External Member, Institute of Economics, Scuola Superiore di Studi Universitari e di Perfezionamento "Sant'Anna", Pisa-Italy.

PROFESSIONAL EXPERIENCES

Jan 2008-present Senior Economist (Chargé d'études de 1ere Classe),
Observatoire Français des Conjonctures Economiques (OFCE)
Département innovation et concurrence.

Apr 2006-Dec 2007 Post-doc Research Fellow,
Chair of Systems Design (Systemgestaltung)
Department of Management, Technology and Economics
Swiss Federal Institute of Technology - Zurich (ETH Zurich)
Zurich, Switzerland.

EDUCATION AND DEGREES OBTAINED

Jul 2015 Habilitation à diriger des recherches, Institut d'études politiques de Paris
(Sciences Po Paris),
Thesis title : "Heterogeneity, Interaction and Networks in Micro and Macroeconomic Dynamics". Director : Prof. Etienne Wasmer.

Sept 2001- Mar 2006 Ph.d. in Economics and Management,
Scuola Superiore di Studi Universitari e di Perfezionamento "Sant'Anna", Pisa - Italy
Thesis title : "Essays on Heterogeneity in Macroeconomic Dynamics". Director : Prof. Giovanni Dosi.

Oct 2004 - Dec 2004 Visiting Researcher,
G.R.E.Q.A.M., Marseille - France.

Jan 2004 - Jun 2004 Visiting Researcher,
Department of Economics, University of Wisconsin - Madison,
Madison, Wisconsin - U.S.A.

Sept 1996 - Jul 2001 Degree Certificate (Laurea) in Economics,
University of Pisa, Pisa - Italy.

Thesis title : "Distribution and Growth with Imperfect Financial Markets". Directors :
Prof. Carlo Casarosa, Dr. Davide Fiaschi.

TEACHING

Current Teaching Activities

2010-present Macroeconomics I - Undergraduate Program,
Sciences Po - Campus "Moyen Orient Méditerranée", Menton, France.

2009-present Aggregate Consumption and Investment and Introduction to Open Macroeconomics,

International Doctoral Program in Economics, Scuola Superiore di Studi Universitari e di Perfezionamento "Sant'Anna", Pisa - Italy.

Past Teaching Activities

2010-2016 Microeconomics I - Undergraduate Program,
Sciences Po Campus "Moyen Orient Méditerranée", Menton, France.

2011-2013 Macroeconomics

MSc in "Business and Economics", SKEMA Business School, Sophia Antipolis, France.

2009-2011 Empirical Analysis of Agglomeration,

Master Program "Gouvernance de l'Innovation", Université de Nice-Sophia Antipolis, France.

2009-2010 Economics of the European Monetary Union, Undergraduate Program,
Sciences Po - Campus "Moyen Orient Méditerranée", Menton, France.

2006-2007 Industrial Dynamics,

MSc in Technology and Economics, ETH - Zürich.

RESEARCH FIELDS

- ※ Macroeconomics.
- ※ Agent-based Computational Economics.
- ※ Economic Networks : Theory and Empirical Evidence.
- ※ Industrial Dynamics.
- ※ Applied Macroeconometrics.

PUBLICATIONS

Recent working papers and articles currently under revision in peer-reviewed journals

Guerini, M., Moneta, A., Napoletano M., Roventini, A. (2017). The Janus-Faced Nature of Debt : Results from a Data-Driven Cointegrated SVAR approach. OFCE Working Paper 2017-02 *Under revision at* MACROECONOMIC DYNAMICS.

Palagi, E., Napoletano, M., Roventini, A., Gaffard J.-L. (2017). Inequality, Redistributive Policies and Multiplier Dynamics in an Agent-Based Model with Credit Rationing. OFCE Working Paper 2017-06 *Under Revision at* ITALIAN ECONOMIC JOURNAL.

Lamperti, F., Balint, T., Mandel, A., Napoletano, M., Roventini, A., Sapio, A. (2016). Complexity and the Economics of Climate Change :a Survey and a Look Forward. OFCE Working Paper 2016/23. *Under revision at* ECOLOGICAL ECONOMICS : minor revisions .

Jacob Leal, S., Napoletano, M., (2016). Market Stability vs. Market Resilience : Regulatory Policies Experiments in an Agent-Based Model with Low- and High- Frequency Trading, OFCE Working Paper 2016/12, *under revision at* JOURNAL OF ECONOMIC BEHAVIOR AND ORGANIZATION : minor revisions.

Guerini, M., Napoletano, M., Roventini, A. (2016), No Man Is an Island : The Impact of Heterogeneity and Local Interactions on Macroeconomic Dynamics. OFCE Working Paper 18/2016. *under revision at* ECONOMIC MODELLING : minor revisions.

Napoletano, M., Roventini, A., Gaffard, J.L. (2015). Time-Varying Fiscal Multipliers in an Agent-Based Model with Credit Rationing. OFCE Working Paper 25/2015 *Under revision at* MACROECONOMIC DYNAMICS.

Lamperti, M., Napoletano M., Roventini A. (2015). Preventing environmental disasters : market based vs command and control policies, OFCE Working Paper 31/2015.

Articles published in peer-reviewed journals

Popoyan, L., Napoletano, M., Roventini, A., (2017). Taming Macroeconomic Instability : Monetary and Macro Prudential Policy Interactions in an Agent-Based Model, JOURNAL OF ECONOMIC BEHAVIOR AND ORGANIZATION, 134 17-140.

Tomasello M., Napoletano M., Garas A., Schweitzer F. (2016). The rise and fall of R&D networks. INDUSTRIAL AND CORPORATE CHANGE, DOI : 10.1093/icc/dtw041.

Napoletano M., Nesta L. (2016). The multifaceted evolution of industries : sectoral and firm-level evidence. INDUSTRIAL AND CORPORATE CHANGE. Vol. 25, Issue 5.

Dosi G., Napoletano M., Roventini A., Treibich T. (2016). Micro and Macro Policies in the Keynes+Schumpeter Evolutionary Models. *JOURNAL OF EVOLUTIONARY ECONOMICS*, 27(1), pp. 63-90.

Napoletano M., Vona F., Gaffard J.-L., (2016) "Profils de l'investissement et divergences de performances entre l'Allemagne et la France", *REVUE DE L'OFCE*, n. 144.

Jacob Leal S., Napoletano M., Roventini A., Fagiolo G. (2016). Rock around the Clock : An Agent-Based Model of Low- and High-Frequency Trading. *JOURNAL OF EVOLUTIONARY ECONOMICS*, vol. 26(1), pp. 49-76.

Dosi G., Fagiolo G., Napoletano M., Roventini A., Treibich T. (2015). Fiscal and Monetary Policies in Complex Evolving Economies. *JOURNAL OF ECONOMIC DYNAMICS & CONTROL*, vol. 52, pp. 166-189.

Dosi G., Fagiolo G., Napoletano M., Roventini A. (2013). Income distribution, credit and fiscal policies in an agent-based Keynesian model. *JOURNAL OF ECONOMIC DYNAMICS & CONTROL*, vol. 37, p. 1598-1625.

Vitali S., Napoletano M., Fagiolo G. (2013). Spatial Localization in Manufacturing : A Cross-Country Analysis . *REGIONAL STUDIES*, vol. 47, p. 1534-1554.

König M.D., Battiston S., Napoletano M., Schweitzer F. (2012). The efficiency and stability of R&D networks. *GAMES AND ECONOMIC BEHAVIOR*, vol. 75, p. 694-713.

Napoletano M., Dosi G., Fagiolo G., Roventini A. (2012). Wage Formation, Investment Behavior and Growth Regimes :An Agent-Based Analysis. *REVUE DE L'OFCE*, vol. 124, p. 235-261.

König M.D., Battiston S., Napoletano M., Schweitzer F. (2011). Recombinant knowledge and the evolution of innovation networks. *JOURNAL OF ECONOMIC BEHAVIOR & ORGANIZATION*, vol. 79, p. 145-164.

Napoletano M., Gaffard J.L. (2010). Performances et politiques de croissance. Un éclairage empirique à partir d'une étude de l'effet de la taille des pays et nouvelles réflexions théoriques. *REVUE DE L'OFCE*, vol. 112, p.213-248.

Fagiolo G., Napoletano M., Piazza M., Roventini A. (2009). Detrending and the Distributional Properties of U.S. Output Time Series. *ECONOMICS BULLETIN*, vol. 29(4), p. 3155-3161.

König M.D., Battiston S., Napoletano M., Schweitzer F. (2008). On algebraic graph theory and the dynamics of innovation networks. *NETWORKS AND HETEROGENEOUS MEDIA*, vol. 3, p. 201-219.

Fagiolo G., Napoletano M., Roventini A. (2008). Are output growth-rate distributions fat-tailed? Some evidence from OECD countries. *JOURNAL OF APPLIED ECONOMETRICS*, vol. 23, p. 639-669.

Russo A., Catalano M., Gaffeo E., Gallegati M., Napoletano M. (2007). Industrial dynamics, fiscal policy and R&D : Evidence from a computational experiment. *JOURNAL OF ECONOMIC BEHAVIOR & ORGANIZATION*, vol. 64, p.426-447.

Fagiolo G., Napoletano M., Roventini A. (2007). How do output growth-rate distributions look like? Some cross-country, time-series evidence. *THE EUROPEAN PHYSICAL JOURNAL. B, CONDENSED MATTER PHYSICS*, vol. 57, p.205-211.

Fagiolo G., Napoletano M., Roventini A. (2007). Sulle distribuzioni dei tassi di crescita dell'output aggregato : un'analisi per Stati Uniti e Italia. *RIVISTA INTERNAZIONALE DI SCIENZE SOCIALI*, vol. 115, p. 215-241.

Sapio, S., Roventini A., Napoletano M. (2006). Modelling smooth and uneven cross-sectoral growth patterns :an identification problem. *ECONOMICS BULLETIN*, vol. 15(7), p. 1-82006.

Napoletano M., Roventini A., Sapio S. (2006). Are Business Cycles All Alike? A Band-pass Filter Analysis of the Italian and US Cycles. *RIVISTA ITALIANA DEGLI ECONOMISTI*, vol. 11(1), p. 87-118.

Russo A., Catalano M., Gaffeo E., Gallegati M., Napoletano M. (2006). Ricerca e sviluppo, produttività e crescita economica : un modello con agenti eterogenei interagenti. *SISTEMI INTELLIGENTI*, vol. 1, p. 155-164.

Edited special issues

Guerci, E., Hanaki, N., Napoletano, M. "Complex evolving system approach to market dynamics and policy design". Special Issue. *JOURNAL OF ECONOMIC BEHAVIOR AND ORGANIZATION*, forthcoming in 2017.

Guerci, E., Hanaki, N., Napoletano, M. "Studies on Networks and Model Validation". Special Issue. *JOURNAL OF ECONOMIC INTERACTION AND COORDINATION*, forthcoming in 2017.

Nesta, L., Napoletano M., (eds.) (2016). Empirical Studies on the Microeconomics of Industrial Change. Special Section. *INDUSTRIAL AND CORPORATE CHANGE*. Vol. 25, Issue 5.

Gaffard J.L., Napoletano M. (eds.) (2012). Agent-based models and economic policy. *REVUE DE L'OFCE*, vol.124, p. 7-447.

Books and book chapters

Dosi, G., Napoletano, M., Roventini, A., Treibich, T. (2015) The Short- and Long-Run Damages of Fiscal Austerity : Keynes beyond Schumpeter. In : Joseph E. Stiglitz, Martin Guzman (eds.), Contemporary Issues in Macroeconomics, p. 79-97, IEA Series, Palgrave Macmillan, December, ISBN : 9781137529589.

Dosi G., Fagiolo G., Napoletano M., Roventini A. (2012). Economic policies with endogenous innovation and Keynesian demand management. In : Robert M. Solow, Jean-Philippe Touffut (eds.), What's Right with Macroeconomics ? p. 110-148, CHELTENHAM : Edward Elgar Publishing Limited, ISBN : 9781-78100-739-6-2.

Barde S., Gaffard J.L., Guillou S., Nesta L., Napoletano M., Salies E. (2010). L'industrie manufacturière française. PARIS :Editions La Decouverte, ISBN : 978-2-7071-5822-2.

Barde S., Napoletano M., Nesta L. (2009). Automobiles : les insuffisances du pacte. In : Eric Heyer (ed.), L'Economie Française 2010. p. 83-93, PARIS :Editions La Decouverte, ISBN : 978-2-7071-5837-6.

Interviews in the press and non academic writings

Interview on "La Repubblica" about high frequency trading and flash crashes ("Dietro i crolli improvvisi ci sono loro", by Livia Ermini), 24 March 2015.

Some reflections on the ECB's Comprehensive Assessment (with S. Battiston). OFCE Blog, 9 December, 2014.

Rock around the Clock : an explanation of flash crashes (with S. Jacob Leal, G. Fagiolo, A. Roventini), OFCE Blog, 29 April, 2014.

UE, perché il modello tedesco è impercorribile, Lettera 43, 27 June 2012.

Eurobond, crescita ad alto rischio, Lettera 43, 23 May 2012.

Entry "Gradualismo", in Dizionario di Economia e Finanza, Enciclopedia Treccani.

WORKS IN PROGRESS

Rational heuristics ? Expectations in complex, evolving economies with heterogenous, interacting agents (with J.E. Stiglitz, G. Dosi, A. Roventini, T. Treibich).

Faraway, so close : An agent-based model for climate, energy and macroeconomic policy (with F. Lamperti, G. Dosi, A. Roventini, A. Sapio).

Be patient enough to wait what you deserve : banks' time- horizons, borrowing constraints and the evolution of industries (with J.L. Gaffard, M. Guerini, L. Nesta).

Market volatility and crashes in experimental financial markets with interactions between human subjects and algorithmic traders (with N. Hanaki, S. Jacob Leal).

Collateral unchained. A model of rehypothecation networks (with S. Battiston, D. Thi Luu, P. Barucca).

Endogenous money in a dynamic network formation model with VaR constraints (with F. Vanni, P. Barucca, G. Dosi, A. Roventini, S. Battiston).

Shocks diffusion and multiplier dynamics in the European Input/Output network (with D. Thi Luu, G. Fagiolo, P. Sgrignoli, A. Roventini).

An Agent-Based Model of intradaily financial markets (with J. Staccioli and G. Dosi).

Granularity and the dynamics of firm competitiveness in France (with M. López-Forero, L. Nesta, A. Secchi).

Financial constraints, productivity and firm selection in Europe before and after the crisis (with P. Battiston, G. Dosi, A. Roventini).

SCIENTIFIC RESPONSIBILITIES AND OTHER SCIENTIFIC ACTIVITIES

※ *Coordination of International Research Projects*

✓ Sciences Po unit leader of the EU H2020 project "Distributed Global Financial Systems for Society" (DOLFINS), 2015-2018.

✓ Sciences Po unit leader of the H2020 project "Innovation-fuelled, Sustainable, Inclusive Growth" (ISIGrowth), 2015-2018.

※ *Participation to International Research Projects*

✓ EU FP7 Project "Impacts and Risks from Higher-End Scenarios : Strategies for Innovative Solutions" (IMPRESSIONS, 2013-2018).

✓ EU FP7 Project Macro-Risk Assessment and Stabilization Policies with New Early arning Signals (RASTANEWS), 2013-2016.

✓ EU FP7 Project P "Monetary, Fiscal and Structural Policies with Heterogeneous Agents" (POLHIA), 2008-2011.

✓ Institute for New Economic Thinking (INET) project, "The Evolutionary Paths Toward the Financial Abyss and the Endogenous Spread of Financial Shocks into the Real Economy", 2010-2013.

※ *Organization of conferences/workshops*

- ✓ OFCE-GREDEG-SKEMA Workshops on Complex Evolving System Approach in Economics, Sophia-Antipolis (7 monthly workshops organized in 2016).
- ✓ 20th Workshop on Economic Science with Heterogeneous Interacting Agents (WEHIA 2015), Sophia Antipolis 21-23 May 2015.
- ✓ 8th European Meeting on Applied Evolutionary Economics (EMAEE 2013), Sophia Antipolis, June 10-12, 2013.
- ✓ Workshop on "New Advances in Agent-Based Modeling", Sciences Po - Paris, Paris, June 19-20, 2012.
- ✓ "Financial Constraints, Firm and Aggregate Dynamics", Sophia Antipolis, December 15-17, 2010.

※ *Editorial Activities*

- ✓ Associate Editor of Journal of Economic Behavior and Organization.
- ✓ Referee Activity for various international journals : Journal of Money Credit and Banking, The B.E. Journal of Theoretical Economics, Ecological Economics, , Journal of Economic Dynamics and Control, Journal of Economic Behavior and Organization, Macroeconomic Dynamics, Journal of Economic Interaction and Coordination, Journal of Evolutionary Economics, Industrial and Corporate Change, Papers in Regional Science, Journal of Economic Geography, Economics of Innovation and New Technology, Structural Change and Economic Dynamics, Advances in Complex Systems.

※ *Invited Conference Talks*

- ✓ First Finexus Conference on Financial Networks and Sustainability. University of Zürich, Zürich (Switzerland), January 11-13, 2017.
- ✓ Freewheeling Econometrics Workshop. Scuola Superiore Sant'Anna, Pisa (Italy), September 28, 2016.
- ✓ Séminaire sur la régulation bancaire Université d'Orléans, Orléans, February 17, 2015.
- ✓ 19th Workshop on Economic Science with Heterogeneous Interacting Agents (WEHIA 2014), University of Tianjin, Tianjin (China), June 17-19 2014.
- ✓ 17th World Congress of the International Economic Association (IEA), Dead Sea (Jordan), June 6-10 2014.
- ✓ Winter School on "Agent Based and Stock Flow Consistent Modeling". Kemmy Business School, Limerick (Ireland) January 30 - February 7 2014.
- ✓ Deutsche Bundesbank/SAFE Conference on "Supervising Banks in Complex Financial Systems", Frankfurt am Main (Germany), October 21-22 2013.
- ✓ SFC Workshop "Building a Common Language for Stock- Flow Consistent Macro Models", Kemmy Business School, Limerick (Ireland), August 26-27 2013.
- ✓ 6ème biennale des mathématiques appliquées et industrielles (SMAI 2013), Seignosse, May 27-31, 2013.
- ✓ Meeting of the INET task-force on "Agent Based and Stock-Flow Consistent Macroeconomics", CIGI/INET Waterloo (Canada), November 15-16, 2012.

※ *Ph.D. thesis co-supervision activity* : ETH Zürich (2 students), Scuola Superiore "Sant'Anna" (4 students).

※ *Member of Ph.D thesis committees* : Université Paris 1 Panthéon-Sorbonne (2), Scuola Superiore "Sant'Anna", Italie (1), Université de Pise, Italie (1), Université de Nice-Sophia-Antipolis (1).

OTHER SKILLS

※ *Programming Languages* : C++, Matlab, R, L^AT_EX.

※ *Languages (fluent)* : Italian (native), French, English.