

Giorgio Fagiolo

Associate Professor of Economics

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Curriculum Vitae

Personal Data

Birth Date: 2 February 1971
Place of Birth: FIUGGI (FR), ITALY
Gender: M
Citizenship: Italian

Education

- Ph.D. in Economics at the European University Institute, S. Domenico di Fiesole (Florence). Committee Members: Alan Kirman (GREQAM, Marseille), Supervisor; Karl Schlag (EUI, Florence), Internal Advisor; Giovanni Dosi (Sant'Anna School, Pisa); Sanjeev Goyal (Queen Mary College, London).
- Degree Certificate in Statistics and Economics with highest final grade (110/110 'cum laude') at University of Rome "La Sapienza", Faculty of Statistics and Economics.

Research Activity

- From November 2006: Associate Professor of Economics at Sant'Anna School of Advanced Studies, Laboratory of Economics and Management, Pisa, Italy.
- October 2005 – December 2005: Visiting Scholar at Bureau d'Economie Theorique et Appliquée (BETA), Strasbourg, France.
- November 2004 – October 2006: Assistant Professor at Department of Economics, University of Verona, Verona, Italy.
- September 2000 – October 2004: Assistant Professor at Sant'Anna School of Advanced Studies, Laboratory of Economics and Management, Pisa, Italy.
- August 1998 – June 1999: Research activity as visiting student at Dept. of Economics, University of Wisconsin – Madison (Madison, WI, U.S.A.)
- September 1996 – September 2000: Research activity as Ph.D. student at European University Institute (EUI), S.Domenico di Fiesole (Florence).

- Winter - Spring 1996: Internship at ISPE, Italian Institute for Economic Planning.
- November 1995 – June 1997: Research Assistant at Department of Economics, Faculty of Statistics, Università di Roma "La Sapienza".

Teaching Activity

Graduate Courses

- Microeconomics 1: Module on Neoclassical Theory of Production, Partial Equilibrium and Market Forms; Ph.D. Program, Sant'Anna School of Advanced Studies.
- Game Theory: Module on Non-Cooperative Game Theory: Ph.D. Program in Economics and Finance, Department of Economics, University of Verona

Undergraduate Courses

- Advanced Game Theory. Undergraduate Program, Sant'Anna School of Advanced Studies
- Agent-based Computational Economics. Undergraduate Program, Sant'Anna School of Advanced Studies
- Microeconomics I, University of Verona at Vicenza.
- Industrial and International Economics, University of Verona at Vicenza.
- Applied Game Theory, University of Verona.
- Mathematical and Statistical Tools in Economics. An Introduction to Agent-Based Modeling. Undergraduate Program, Sant'Anna School of Advanced Studies
- Advanced Game Theory: An Introduction to Evolutionary Games. Undergraduate Program, Sant'Anna School of Advanced Studies
- Topics in Microeconomics: Complexity and Economic Theory, University of Verona.

Other Relevant Activities

- Member of the Advisory Council of the Society for Computational Economics.
- Associate editor for Advances in Complex Systems (ACS) and the Journal of Economic Interaction and Coordination (JEIC).
- Referee activity for various international journals (American Economic Review, Industrial and Corporate Change, Structural Change and Economic Dynamics, Journal of Economic Dynamics and Control, e-JEMED, Journal of Evolutionary Economics, International Journal of Industrial Organization, Computational Economics, Journal of Economic Behavior and Organization, European Physical Journal B, Physical Review, Small Business Economics).
- Coordinator of the Macroeconomics Courses (1st and 2nd year) within the Ph.D. Program in Economics and Management, Sant'Anna School of Advanced Studies.

Grants

- December 1996 : Bank of Italy, "B. Stringher" Scholarship for Post-Graduate Studies in Economics, Academic Year 1998-1999.
- July 1996 : European Investment Bank, "Campili-Formentini" Scholarship for a Three-Year Program of Post-Graduate Studies in Economics, Academic Years 1996-1998 and 1999-2000.

Fields of interest

- Agent-Based Computational Economics: Methodological Issues, Models and Applications
- Game-Theoretic Models of Strategic Network Formation
- Economic Networks: Empirical Evidence
- Industrial Dynamics: Models and Empirical Evidence
- Statistical Properties of Micro and Macro Dynamics

Selected publications (refereed international journals)

- Capasso, M., Alessi, L., Barigozzi, M. and Fagiolo, G. (2009), "On approximating the distributions of goodness-of-fit test statistics based on the empirical distribution function: The case of unknown parameters", *Advances in Complex Systems*, forthcoming.
- Reyes, J., Schiavo, S. and Fagiolo, G. (2009), "Using Complex Networks Analysis to Assess the Evolution of International Economic Integration: the Cases of East Asia and Latin America", *Journal of International Trade and Economic Development*, forthcoming.
- Fagiolo, G., Alessi, L., Barigozzi, M. and Capasso, M. (2009), "On the distributional properties of household consumption expenditures. The case of Italy", *Empirical Economics*, forthcoming.
- Fagiolo, G., Reyes, J. and Schiavo, S. (2009), "The World-Trade Web: Topological Properties, Dynamics, and Evolution", *Physical Review E*, 79, 036115 (19 pages).
- Reyes, J., Schiavo, S. and Fagiolo, G. (2008), "Assessing the evolution of international economic integration using random-walk betweenness centrality: The cases of East Asia and Latin America", *Advances in Complex Systems*, 11: 685–702.
- Fagiolo, G., Napoletano, M. and Roventini, A. (2008), "Are Output Growth-Rate Distributions Fat-Tailed? Some Evidence from OECD Countries", *Journal of Applied Econometrics*, 23: 639-669.
- Dosi, G., Fagiolo, G. and Roventini, A. (2008), "The Microfoundations of Business Cycles: An Evolutionary, Multi-Agent Model", *Journal of Evolutionary Economics*, 18: 413-432.

- Dawid, H. and Fagiolo, G. (Eds.), Special Issue on "Agent-Based Models for Economic Policy Design", *Journal of Economic Behavior and Organization*, 2008, Volume 67, Issue 2.
- Fagiolo, G., Birchenhall, C. and Windrum, P. (Eds.), Special Issue on "Empirical Validation in Agent-Based Models", *Computational Economics*, 2007, Volume 30, Number 3.
- Bottazzi, G., Dosi, G., Fagiolo, G. and Secchi, A. (2007), "Modeling Industrial Evolution in Geographical Space", *Journal of Economic Geography*, 7: 651-672.
- Fagiolo, G., Valente, M. and Vriend, N. (2007), "Segregation in Networks", *Journal of Economic Behavior and Organization*, 64: 316-336.
- Dosi, G., Fagiolo, G. and Roventini, A. (2007), "Lumpy investment and endogenous business cycles in an evolutionary multi-agent model", *Cybernetics and Systems*, 38: 631-666.
- Fagiolo, G., Moneta, A. and Windrum, P. (2007), "A Critical Guide to Empirical Validation of Agent-Based Models in Economics: Methodologies, Procedures, and Open Problems", *Computational Economics*, 30:195-226.
- Fagiolo, G. (2007), "Clustering in Complex Directed Networks", *Physical Review E*, 76: 026107 (8 pages).
- Fagiolo, G., Napoletano, M. and Roventini, A. (2007), "How Do Output Growth Rate Distributions Look Like? Some Time-Series Evidence on OECD Countries", *European Physical Journal B*, 57: 205-211.
- Windrum, P., Fagiolo, G. and Moneta, A. (2007), "Empirical Validation of Agent-Based Models: Alternatives and Prospects", *Journal of Artificial Societies and Social Simulation*, 10, 2, available at: <http://jasss.soc.surrey.ac.uk/10/2/8.html> .
- Fagiolo, G. (2006) "[Directed or Undirected? A New Index to Check for Directionality of Relations in Socio-Economic Networks](#)", *Economics Bulletin*, 3, 34: 1-12.
- Fagiolo, G. and Luzzi, A. (2006), "Do Liquidity Constraints Matter in Explaining Firm Size and Growth? Some Preliminary Evidence on the Italian Manufacturing Industry", *Industrial and Corporate Change*, 15, 1: 1-39.
- Dosi, G., Fagiolo, G. and Roventini, A. (2006), "An Evolutionary Model of Endogenous Business Cycles", *Computational Economics*, 27, 1: 3-34.
- Fagiolo, G. (2005), "[A Note on Equilibrium Selection in Polya-Urn Coordination Games](#)", *Economics Bulletin*, 3, 45: 1-14.
- Fagiolo, G. and Valente, M. (2005), "Minority Games, Local Interactions, and Endogenous Networks", *Computational Economics*, 25: 41-57.
- Fagiolo, G. (2005), "Endogenous Neighborhood Formation in a Local Coordination Model with Negative Network Externalities", *Journal of Economic Dynamics and Control*, 29: 297-319.

- Fagiolo, G., Marengo, L. and Valente, M. (2004), "Population Learning in a Model with Random Payoff Landscapes and Endogenous Networks", *Computational Economics*, 24: 383-408.
- Fagiolo, G., Marengo, L. and Valente, M. (2004), "Endogenous Networks in Random Population Games", *Mathematical Population Studies*, 11: 121-147.
- Fagiolo, G., Dosi, G. and Gabriele, R. (2004), "Matching, Bargaining, and Wage Setting in an Evolutionary Model of Labor Market and Output Dynamics", *Advances in Complex Systems*, 14: 237-273.
- Fagiolo, G. and Dosi, G. (2003), "Exploitation, Exploration and Innovation in a Model of Endogenous Growth with Locally Interacting Agents", *Structural Change and Economic Dynamics*, 14: 237-273.
- Aversi, R., Dosi, G., Fagiolo, G., Meacci, M. and Olivetti, C. (1999), "Demand Dynamics with Socially Evolving Preferences", *Industrial and Corporate Change*, 8, 2: 353-408.