

Personal information

Marco Valente

Surname(s) / First name(s)

Address(es)

Email(s)

Nationality(-ies)

Date of birth

Marital status

EDUCATION AND RESEARCH CAREER

June 2015 – now

Institution

Associate professor of Economics

Università dell'Aquila

July 2001 – May 2015

Institution

Assistant professor of Economics

Università dell'Aquila

May 2000 – June 2001

Institution

Supervisor

Post-doc

Università di Trento, faculty of Economics, project on *Complexity and Economic Organizations*

Prof. L.Marengo

June 1998 – June 2001

Institution

Researcher in Economics and Statistics

ISTAT (Italian statistical institute), Rome

Febr. 1997 – Febr. 2000

Institution

Thesis

Supervisor

Ph.D. in Economics

University of Aalborg (Denmark), *Department of Business Studies*

Evolutionary Economics and Computer Simulations: A Model for the Evolution of Markets

Prof. E.S.Andersen

July 1995 – January 1997

Institution

Project

Researcher: project on evolutionary simulations models

IIASA, *International Institute for Advanced System Analysis*, Vienna, Austria

TED: *System Analysis of Technological and Economic Dynamics*, director: Prof. G.Dosi

Sept. 1994 – June 1995

Institution

Thesis

Supervisor

Master (MA) in Economics

University of Manchester (UK), *Faculty of Economics*

Evolutionary Economics and Object-Oriented Modelling

Prof. C.Birchenthal

June 1992 – May 1994

Institution

Contracts for ADAMS, European project for the automatic management of aggregate statistical data

CNR (*National Research Council*), *Istituto di Studi sulla Ricerca e Documentazione Scientifica*, Rome

July 1992

Institution

Thesis

Supervisor

Laurea in "Scienze Statistiche ed Economiche"

University "La Sapienza", faculty of Statistics, Rome

"Adaptive Learning and Pricing Rules: mark-up as emerging rule" (mark: 110/110)

Prof. G.Dosi

PUBLICATIONS

Journal articles

- Dosi, G., Marengo, L., Paraskevopoulou, E. and Valente, M., accepted, "A MODEL OF COGNITIVE AND OPERATIONAL MEMORY OF ORGANIZATIONS IN CHANGING WORLDS", *Cambridge Journal of Economics*.
- Ciarli, T., and Valente, M., 2016, "THE COMPLEX INTERACTIONS BETWEEN ECONOMIC GROWTH AND MARKET CONCENTRATION IN A MODEL OF STRUCTURAL CHANGE", *Structural Change and Economic Dynamics*, **38** pp. 38-54.
- Lorenz, A., Ciarli, T., Savona, M. and Valente, M., 2016, "THE EFFECT OF DEMAND-DRIVEN STRUCTURAL TRANSFORMATIONS ON GROWTH AND TECHNOLOGICAL CHANGE", *Journal of Evolutionary Economics*, **26**(1) pp. 219-246.
- Valente, M., 2014, "AN NK-LIKE MODEL FOR COMPLEXITY", *Journal of Evolutionary Economics*, **24**(1), pp. 107-134.
- Di Maio, M. and Valente, M., 2013, "UNCERTAINTY, SPECIALIZATION AND GOVERNMENT INTERVENTION", *Metroeconomica*, **64**(2), pp. 215-243.
- Valente, M., 2012, "EVOLUTIONARY DEMAND: A MODEL FOR BOUNDED RATIONAL CONSUMERS", *Journal of Evolutionary Economics*, **22**(5), pp. 1029-1080.
- Marengo, L., Pasquali, C., Valente, M. and Dosi, G., 2012, "APPROPRIABILITY, PATENTS, AND RATES OF INNOVATION IN COMPLEX PRODUCTS INDUSTRIES", *Economics of Innovation and New Technology*, **21**(8), pp. 753-773.
- Di Maio, M. and Valente, M., 2012, "UNCERTAINTY AND THE OPTIMAL LEVEL OF SPECIALIZATION", *Research in Economics*, **66**(3), pp. 213-218.
- Coad, A. and Valente, M., 2011, "HUNTING FOR A BOGEYMAN? IN SEARCH OF STATISTICAL EVIDENCE OF DIRECT COMPETITION BETWEEN FIRMS", *Evolutionary and Institutional Economics Review*, **8**(1).
- Vinciguerra, S., Frenken, K. and Valente, M., 2010, "THE GEOGRAPHY OF INTERNET INFRASTRUCTURE: AN EVOLUTIONARY SIMULATION APPROACH BASED ON PREFERENTIAL ATTACHMENT", *Urban Studies*, **47**(9), pp. 1969-1984.
- Faber, A., Valente, M. and Janssen, P., 2010, "EXPLORING DOMESTIC MICRO-COGENERATION IN THE NETHERLANDS: AN AGENT-BASED DEMAND MODEL FOR TECHNOLOGY DIFFUSION", *Energy Policy*, **38**(6), pp. 2763-2775.
- Marengo, L. and Valente, M., 2010, "INDUSTRY DYNAMICS IN COMPLEX PRODUCT SPACES: AN EVOLUTIONARY MODEL", *Structural Change and Economic Dynamics*, **21**(1), pp. 5-16.
- Ciarli, T., Lorenz, A., Savona, M. and Valente, M., 2010, "THE EFFECT OF CONSUMPTION AND PRODUCTION STRUCTURE ON GROWTH AND DISTRIBUTION. A MICRO TO MACRO MODEL", *Metroeconomica*, **61**(1), pp. 180-218.
- Bleda, M. and Valente, M., 2009, "GRADED ECO-LABELS: A DEMAND-ORIENTED APPROACH TO REDUCE POLLUTION", *Technological Forecasting and Social Change*, **76**(4), pp. 512-44.
- Valente, M., 2009, "BOOK REVIEW: APPLIED EVOLUTIONARY ECONOMICS: NEW EMPIRICAL METHODS AND SIMULATION TECHNIQUES", SAVIOTTI, P.P. (ED.), *Journal of Artificial Societies and Social Simulations*, **9**(4)
- Ciarli, T., Leoncini, R., Montresor, S. and Valente, M., 2008, "TECHNOLOGICAL CHANGE AND THE VERTICAL ORGANIZATION OF INDUSTRIES", *Journal of Evolutionary Economics* **18**(3-4), pp. 367-87.
- Brunsoni, S., Marengo, L., Prencipe, A. and Valente, M., 2007, "THE VALUE AND COSTS OF MODULARITY: A PROBLEM-SOLVING PERSPECTIVE", *European Management Review*, **4**, pp. 121-132.

Ciarli, T., Leoncini, R. and Montresor, S. and VALENTE, M. , 2007, "INNOVATION AND COMPETITION IN COMPLEX ENVIRONMENTS", *Innovation: management, policy & practice*, 9(3-4), pp. 292-310.

Fagiolo, G., Valente, M. and Vriend, N. , 2007, "SEGREGATION IN NETWORKS", *Journal of Economic Behavior and Organization*, 64, pp. 316-336.

Fagiolo, G. and Valente, M., 2005, "MINORITY GAMES, LOCAL INTERACTIONS, AND ENDOGENOUS NETWORKS", *Computational Economics*, 25(1-2), pp. 41-57.

Fagiolo, G., Marengo, L. and , Valente, M. , 2005, "POPULATION LEARNING IN A MODEL WITH RANDOM PAYOFF LANDSCAPES AND ENDOGENOUS NETWORKS", *Computational Economics*, 24(4), pp. 383-408.

Fagiolo, G., Marengo, L. and Valente, M. , 2004, "ENDOGENOUS NETWORKS IN RANDOM POPULATION GAMES", *Mathematical Population Studies*, 11(2), pp. 121-47.

Valente, M. and , Andersen, E. S., 2002, "A HANDS-ON APPROACH TO EVOLUTIONARY SIMULATION: NELSON AND WINTER MODELS IN THE LABORATORY FOR SIMULATION DEVELOPMENT", *e-Jemed, Electronic Journal of Evolutionary Modeling and Economic Dynamics*, 1003.

Valente, M. , 2002, "COMMENTS ON THE PAPER "EQUILIBRIUM SELECTION VIA ADAPTATION: USING GENETIC PROGRAMMING TO MODEL LEARNING IN A COORDINATION"", *e-Jemed, Electronic Journal of Evolutionary Modeling and Economic Dynamics*, 1021.

Dosi, G., Bassanini, A., Marengo, L. and Valente, M., 1999, "NORMS AS EMERGENT PROPERTIES OF ADAPTIVE LEARNING: THE CASE OF ECONOMIC ROUTINES", *Journal of Evolutionary Economics*, 9(1), pp. 5-26.

Chapters

Valente, M. , 2015, "INNOVATIONS AND ORGANIZATIONAL STRUCTURES", in L.Biggiero (ed.) "Relational Methodologies and Epistemology in Economics and Management Sciences", IGI Global, Hershey PA, USA.

Valente, M. , 2015, "AGENT-BASED MODELING: DEFINITIONS AND A METHODOLOGICAL PROPOSAL", in L.Biggiero (ed.) "Relational Methodologies and Epistemology in Economics and Management Sciences", IGI Global, Hershey PA, USA.

Biggiero, L. and Valente, M. , 2015, "THE ROLE OF KNOWLEDGE HETEROGENEITY IN INDUSTRIAL CLUSTERS KNOWLEDGE DYNAMICS: AN APPLICATION OF THE BOOLEAN NETWORK SIMULATION MODELING", in L.Biggiero (ed.) "Relational Methodologies and Epistemology in Economics and Management Sciences", IGI Global, Hershey PA, USA.

Valente, M. , 2012, "LE PREVISIONI IN ECONOMIA", in Arnaldi, S. and Poli, R., (eds.), "La Previsione Sociale", Carocci Editore.

Ciarli, T, Leoncini, R., Montresor, S. and Valente, M. , 2010, "LINKING TECHNOLOGICAL CHANGE TO ORGANIZATIONAL DESIGN: SOME INSIGHTS FROM A PESUDO-NK MODEL", in De Liso, N. and Leoncini, R., (ed.), "Internationalization, Technological Change and the Theory of the Firm", Routledge Studies in Global Competition, Routledge.

Ciarli, T, Leoncini, R., Montresor, S. and Valente, M. , 2010, "PRODUCT ARCHITECTURE AND FIRM ORGANIZATION: THE ROLE OF INTERFACES", in Petra Ahrweiler, (ed.), "Innovation in Complex Social Systems", Routledge Studies in Global Competition, Routledge.

Fagiolo, G., Valente, M. and Vriend, N. , 2008, "A DYNAMIC MODEL OF SEGREGATION IN SMALL-WORLD NETWORKS", in A.K. Naimzada, S.Stefani and A.Torriero, (ed.), "Theory and Applications to Economics and Social Systems", Lecture Notes in Economics and Mathematical Systems, Springer.

	<p>Marengo, L., Pasquali, C. and Valente, M. , 2005, "DECOMPOSABILITY AND MODULARITY OF ECONOMIC INTERACTIONS", in W. Callebaut and D. Rasskin-Gutman, (ed.), "Modularity: Understanding the Development and Evolution of Complex Natural Systems", The Vienna Series in Theoretical Biology, pp. 835–897, Cambridge MA, MIT Press.</p> <p>Fagiolo, G., Marengo, L. and Valente, M. , 2005, "POPULATION LEARNING IN RANDOM GAMES WITH ENDOGENOUS NETWORK FORMATION", in Lux, T., Reitz, S. and Samanidou, E., (ed.), "Nonlinear Dynamics and Heterogenous Interacting Agents", Lecture Notes in Economics and Mathematical Systems, Berlin, Springer.</p> <p>Ciarli, T. and Valente, M. , 2005, "FIRMS INTERACTIONS AND INDUSTRIAL DEVELOPMENT: A SIMULATION MODEL", in E. Giuliani R. Rabellotti and M. P. Van Dijk, (ed.), "Clusters facing competition: the importance of external linkages", Ashgate, Aldershot.</p> <p>Ciarli, T. and Valente, M. , 2004, "A GENERALISED COMPUTATIONAL MODEL OF FIRMS PRODUCTION AND INTERACTIONS: EMERGENT NETWORK STRUCTURE AND INDUSTRIAL DEVELOPMENT", in M. Richiardi and R. Leombruni, (ed.), "Industry and Labor Dynamics: The Agent-Based Computational Economics Approach. Proceedings of the Wild@ace 2003 Conference", World Scientific Publishing, Singapore.</p> <p>Fagiolo, G., Marengo, L. and Valente, M. , 2004, "FORMAZIONE ENDOGENA DI RETI IN GIOCHI DI POPOLAZIONE CASUALI", in D.Delli Gatti and M.Gallegati, (ed.), "Eterogeneità degli agenti economici e interazione sociale: teorie e verifiche empiriche", collana della Società Italiana degli Economisti, Il Mulino, Bologna.</p> <p>Frenken, K., Marengo, L. and Valente, M. , 1999, "INTERDEPENDENCIES, NEAR-DECOMPOSABILITY AND ADAPTATION", in T. Brenner, (ed.), "Computational Techniques for Modelling Learning in Economics", Kluwer Academics.</p>
In Progress	<p>Valente, M., "EXPLICIO, ERGO COGNOSCO - METHODOLOGICAL IMPLICATIONS OF KNOWLEDGE AS EXPLANATIONS", submitted to <i>Economics and Philosophy</i>.</p> <p>Babutsidze, Z. and Valente, M. , "A TRICK OF THE TAIL: THE ROLE OF SOCIAL NETWORKS IN EXPERIENCE-GOOD MARKET DYNAMICS", submitted to <i>Journal of Economic Dynamics and Control</i>.</p> <p>Valente, M. , "WHEN THE BRIGHTEST ARE NOT THE BEST", LEM wp 2015/13, to be submitted to <i>Research Policy</i>.</p> <p>Valente, M. and Ciarli, T. , "DISTRIBUTED ENERGY STORAGE SYSTEMS: EFFECTS ON DEMAND VOLATILITY", conference paper.</p> <p>Lorentz, A., Marengo, L., Llerena, P., and Valente, M. , "KNOWLEDGE, PRODUCTION AND TIME: AN ATTEMPTED EVOLUTIONARY MODEL OF PRODUCTION", conference paper.</p> <p>Valente, M. , 2014 , "LABORATORY FOR SIMULATION DEVELOPMENT - LSD", manual for the LSD simulation platform (www.labsimdev.org).</p>
PUBLIC DEBATE (ITALIAN)	<p>Valente, M., 2016, " CRISI FINANZIARIA E BREXIT: LA LEZIONE MANCANTE DEGLI ECONOMISTI", <i>www.eticaeconomia.it</i>.</p> <p>Valente, M., 2016, " 'IL MERCATO E L'UNIVERSITÀ (ORGOGLIOSAMENTE) PUBBLICA': UN COMMENTO ALL'ARTICOLO DI L. MARATTIN", <i>www.eticaeconomia.it</i>.</p> <p>Valente, M., 2016, "CONCORSI UNIVERSITARI, TRA CORRUZIONE E NECESSITÀ", <i>Roars - Returns on Academic Research</i>.</p> <p>Valente, M., 2015, "UNIVERSITÀ: ESSERE O NON ESSERE PUBBLICA AMMINISTRAZIONE?", <i>Roars - Returns on Academic Research</i>.</p> <p>Corsi, M., Pini, P. and Valente, M., 2015, "RILIEVI SUL BANDO VQR", <i>Roars - Returns on Academic Research</i>.</p> <p>Valente, M., Pini, P. and Moneta, A., 2015, "LA VQR CHE VERRÀ", <i>Roars - Returns on Academic Research</i>.</p>

Pini, P. and Valente, M., 2014, "ALLA RICERCA DEL SANTO GRAAL (E COME VIVERE SENZA)", *Roars - Returns on Academic Research*.

Valente, M., 2009, "E' IL MOMENTO DELLA FINANZA MINIMA", *Sbilanciamoci.info*.

Valente, M., 2008, "LA BOLLA CHE ROTOLA GIÙ DALLA PIRAMIDE", *Sbilanciamoci.info*.

RESEARCH PROJECTS

ISIGROWTH

Project funded from the European Union "Horizon 2020 Research and Innovation" action. The project addresses the topic "EURO-2-2014: The European growth agenda" and in particular dimensions 2 ("Innovation-based growth strategy for Europe") and 3 ("Global production and innovation networks: costs and benefits for Europe"). Member of the University of Sussex unit, responsible for simulation modeling.

ON THE WINGS OF L'AQUILA

Project led by the OECD coordinating a group of international experts on how to deal with economic and social consequences of natural disasters (2011-12). Coordinating interviews, surveys, data elaboration, and reports' writing.

DIME

EU project funded in the 6th framework, running from 2006 to 2011. Participated to several working package on research, teaching and dissemination.

SIME

European contract (n. HPCFCT-2002-00448) to fund a course on Agent-Based Simulation modeling (2003-2004).

ETIC

European doctoral network running courses across different countries (2001-2003). Organization, teaching and students' supervision.

TEACHING

since 2015

Microeconomics (Undergraduate), University of L'Aquila, faculty of Economics

since 2011

Industrial Economics (Master), University of L'Aquila, faculty of Economics

2002-2011

Institutions of Economics (Undergraduate), University of L'Aquila, faculty of Economics

2005-2008

Modeling and Evolutionary Economics (10 hours for Master students), University of Strasbourg, faculty of Economics.

2003-present

SIME, One week full time course on design, implementation and analysis of simulation models. Temporarily funded by the European Community (contract n.HPCFCT-2002-00448 until 2005 and by DIME from 2006), held in BETA, University of Strasbourg, France. Otherwise hosted in PhD programs or summer schools in Jena, Pisa, Maastricht.

2004

Industrial Economics (Undergraduate), University of L'Aquila, faculty of Economics

2002

Computer Sciences for Economics (Undergraduate course), University of L'Aquila, faculty of Economics

GRADUATE COURSES

I routinely contribute to several European graduate programs with teaching, reviewing students' works and supervisions.

PH.D. SUPERVISION

2005

Dr. T.Ciarli, joint program University of Ferrara and University of Birmingham

2014

Dr. T.Caliari, Universidade Federal de Minas Gerais, Brasil

2013 - present

Member of the Coordinating Committee of the Doctoral program, University of L'Aquila

MISCELLANEA

ASN

"Abilitazione Scientifica Nazionale" (ASN) as Full Professor in Economics, Macrosettore 13/A (Economic Policy, SECS-P02).

VISITING (RECENT)

University of Sussex, Science and Policy Research Unit (SPRU): June-December 2010; from June 2015 to May 2017. Curitiba (Brasil): July 2014; June 2016. Campinas (Brasil): August 2012.

SIMULATIONS

Laboratory for Simulations Development - Lsd. Starting from 1995 I am developing a platform for implementing agent-based models. Besides teaching, I have used Lsd to build models for my own research, tutoring and collaboration with other researchers. See www.labsimdev.org for details.

SEMINARS AND INVITED SPEAKER (RECENT)	Seminars and summer school course on ABM modeling and Industrial Economics, Bochum, Germany, 2016; "Advances in Economic Dynamics and Development: Economics and Complexity", UFPR Curitiba Brazil, 2016; "When the Brightest are not the Best", seminar at SPRU, Brighton, 2016; "Agent Based Models: Progress in Non-Equilibrium Economics", Ancona, 2014; "Agent-Based Modeling and Stock-Flow Consistent Macroeconomics", INET, Conero, 2014; "Simulations Methods, Innovation and Uncertainty" Summer Academy, Jena, 2014; "Advances in Economic Dynamics and Development: Economics and Complexity", UFPR Curitiba Brazil, 2013; "Advances in complexity: Analytical tools and policy implications for innovation, ICT and growth", ECLAC, UN Santiago, Chile, 2013; "DIMETIC", University of Strasbourg 2011; "Knowledge as Explanations: Some Methodological Implications", invited seminar, SKEMA and OFCE, Nice, FR 2013;
CONFERENCES (RECENT)	STI, Valencia, 2016; SPRU 50, Brighton, 2016; WHEIA Conference, Nice, 2015; EAME Conference, Bordeaux, 2015; EAEPE Conference, Genoa, 2015; SIE Conference, Naples, 2015; European Network on the Economics of the Firm, ENEF, Manchester, IT 2014; International Joseph A. Schumpeter Society Conference, University of Jena, 2014; European Meeting on Applied Evolutionary Economics, OFCE, Nice, FR 2013; International workshop on Computational Economics and Econometrics, CNR, Roma, IT 2013; DIME Final Conference, UNU-MERIT, Maastricht, NL 2011; Advances in Economic Dynamics and Development: Economics and Complexity, UFPR Curitiba Brazil, 2013; Advances in complexity: Analytical tools and policy implications for innovation, ICT and growth, ECLAC, UN Santiago, Chile, 2013.
REVIEWER	Journal of Economic Behavior and Organization, Research Policy, Journal of Evolutionary Economics, Computational Economics, Industrial and Corporate Change, JASSS, Applied Mathematics and Computation, Regional Studies, Simulation Modelling Practice and Theory, Industry and Innovation, Management Science, Computers Environment, Urban Systems, Journal of Economic Interaction and Coordination, Ecological Economics.
Prize	Winner of the 1994 KAPP PRIZE for the best paper, awarded by European Association for Evolutionary Political Economy.
ADMINISTRATIVE (NATIONAL)	From 2013 to 2015 member of the <i>National University Council</i> (CUN), representing Italian university faculty of Economics, Management and Statistics (Area CUN 13).
ADMINISTRATIVE (LOCAL)	Current: responsible for the entry tests for the programs in Economics; member of the Student-Teaching staff Committee (<i>Paritetica</i>). Past positions: responsible for ICT planning, responsible for assessment of teachers' evaluations by students, learning programs' counsellor, coordinator of Erasmus programs.