

CURRICULUM VITAE

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Short biography

I got a PhD in Economics from Università Politecnica delle Marche (Italy) in 2001.

After serving as Assistant Professor and Associate Professor of Economics at the University “G. d’Annunzio” of Chieti-Pescara, I am currently Full Professor of Economics at the same University. I served as teacher of Public Economics, Economics of Monetary and Financial Markets, Monetary Economics and International Finance.

My main research interest is the investigation of agents’ behaviors and interactions in order to understand their role in generating the aggregate socio-economic systems’ outcomes. Business fluctuations, markets’ functioning, social exclusion and cohesion are among the several phenomena of interest.

I have obtained a considerable experience in developing Agent-based models by implementing feed back loops between theoretical and computational aspects. Beyond Economic theory I gathered experience in ICT by participating in the FP6 - FET IST (2004-2007) Project CATNETS.

In recent years I focused my research on the application of computational and ITC techniques to understand the international food markets and to enhance food security.

I am the author and co-author of articles appeared in international refereed journals and books.

Education

- Academic Year 1996/97 - Master Degree in Economics at the Consortium for Research and Continuing Education in Economics (CORIPE Piemonte), Turin, Italy.
- February 9th, 2001 - PhD in Economics at the University of Ancona.

Academic positions

- 2017/10 (October)-now: Full Professor of Economics at the University “Gabriele d’Annunzio” of Chieti-Pescara.
- 2011-2017 (September): Associate Professor of Economics at the University “Gabriele d’Annunzio” of Chieti-Pescara.
- 2005-2011: Assistant Professor of Economics at the University “Gabriele d’Annunzio” of Chieti-Pescara.
- 2001-2005: Postdoc at the Marche Polytechnic University.
- 1999-2004: Teacher Assistant at the University of Urbino.

Academic appointments

- 2018/02 (February)-now: Member of the board of directors of the Department of Philosophical, Pedagogical and Economic-Quantitative Sciences at the University “Gabriele d’Annunzio” of Chieti-Pescara.
- 2017/10 (October)-now: Coordinator of the Master’s degree program in Management, Finance and Development at the University “Gabriele d’Annunzio” of Chieti-Pescara.

Organization of scientific events

- 3-5 July, 2019: special session organizer (with Massimiliano Pasqui and Edmondo Di Giuseppe). Special session: Computational approaches to the economic effects of climate variability and change. VII International Workshop on Computational Economics and Econometrics, Rome, July 3-5 2019.
- 3-5 June, 2015: Special session on Multi-Agent Macroeconomics at the 12th International Symposium on Distributed Computing and Artificial Intelligence, University of Salamanca (Spain).
- 4-6 June, 2014: Special session on Multi-Agent Macroeconomics at the 11th International Symposium on Distributed Computing and Artificial Intelligence, University of Salamanca (Spain).

Membership in international program committee

- 2019: special session organizer (with Massimiliano Pasqui and Edmondo Di Giuseppe). Special session: Computational approaches to the economic effects of climate variability and change.
Event: VII International Workshop on Computational Economics and Econometrics, Rome, July 3-5 2019.

- 2016: Program Committee member in the Duke Forest Conference 2016 Celebrating the 50th anniversary of the “Theory of Self-Reproducing Automata” (by John von Neumann) Hilton Garden, Durham, North Carolina, Nov 11-13, 2016
- 2016: Program Committee member in the Decision Economics Special Session of the 13th International Conference on Distributed Computing and Artificial Intelligence (DCAI’16) University of Sevilla, Sevilla (Spain) — 1st-3rd June, 2016
- 2015: Program Committee member in the 12th International Conference on Economics of Grids, Clouds, Systems, and Services, Zaragoza, Spain, September 18-20, 2013
- 2015: Program Committee member in the 5th International Conference on Methodologies and Intelligent Systems for Tehnology Enhanced Learning, University of Salamanca (Spain) 3rd-5th June, 2015
- 2015: Program Committee member in the 4th International Workshop on Community Networks and Bottom-up-Broadband, Rome, Italy, August 24-26, 2015
- 2014: Program Committee member in The 3rd International Workshop on Community Networks and Bottom-up-Broadband (CNBuB 2014) Larnaca, Cyprus, October 8th, 2014
- 2014: Program Committee member in the “Cloud, Data Centers and Services Computing” track of The 29th IEEE International Conference on Advanced Information Networking and Applications (AINA-2015) Gwangju, Korea, March 24-27, 2015
- Component of the Scientific Committee of the Abruzzo Academy Foundation (since the price awarding).
- Component of the Program Committee of the International Workshop on Agent based Grid Computing at the 7th IEEE International Symposium on Cluster Computing and the Grid (CC-Grid’2007) Rio de Janeiro, Brasil, 14-17 May 2007.
- Component of the Program Committee of the International Workshop on Agent based Grid Computing at the 6th IEEE International Symposium on Cluster Computing and the Grid (CC-Grid’2006) Singapore, 16-19 may 2006.
- Component of the Program Committee of the 2nd International Workshop on Smart Grid Technologies (SGT06) organized within the 3rd IEEE International Conference on Autonomic Computing (ICAC), Dublin, 12-16 June 2006.

Participation in Research Projects

- Participation to the FP6 - FET IST (2004-2007) Project ”Evaluation of the Catallaxy paradigm for decentralized operation of dynamic application networks”. I was mainly involved in the economic aspects which are reported in the following documents: Deliverable 0.4: Half Year Report of WP4; Deliverable 2.1: Analysis of Simulation Environment; Deliverable 4.1: Evaluation and Metrics Framework.
- Participation to the Project “Financial Fragility, Complex Dynamics in Agent-based Models: Theory and Empirical Analysis” funded by the Italian Ministry of Research, 2005-2006.

Teaching in University courses

- 1999-2004: Economic Policy at the University of Urbino (as Teacher Assistant).

- 2005-now: International Finance, Monetary Economics and Public Economics at the University of Chieti-Pescara.

Activity in PhD programs

- 2010-now: Teacher of the course “Dynamic Macroeconomics” in the Doctoral Program “Economics and Statistics” at the University of Chieti-Pescara.
- 2008-now: Member of the teaching body of the Doctoral program “Economics and Statistics” at the University of Chieti-Pescara.
- 2009: Member of the Panel of Judges for the final exam of the PhD Program in Economics at the Marche Polytechnic University.
- Tutorship for several PhD students.

Other important items

- Principal investigator of the Research Group for Experimental Microfoundations of Macroeconomics (GEMM) (website: <http://erre.unich.it/gemm>).
- Participation in several scientific conferences.
- Academic year 1998/99 (6 months): Visiting at the “Groupement de Recherche en Économie Quantitative d’Aix-Marseille”, France.

Reviewer for

- Computational Economics,
 - Macroeconomic Dynamics,
 - Journal of Economic Behavior & Organization,
 - Economic Modeling,
 - Economics Bulletin,
 - Economics E-journal,
 - Journal of Economic Interaction and Coordination.
 - International Journal of Computational Economics and Econometrics.
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Publications

legend for type: b = book; eb = edited book; aj = article in a journal; av = article in a volume; ap = article in proceedings

Year	Type	Reference
2019	aj	G. Giulioni , E. Di Giuseppe, P. Toscano, F. Miglietta, M. Pasqui. A Novel Computational Model of the Wheat Global Market with an Application to the 2010 Russian Federation Case, The Journal of Artificial Societies and Social Simulation, 22(3) article n. 4
2019	aj	G. Giulioni . GABRIELE: The General Agent Based Repast Implemented Extensible Laboratory for Economics, SoftwareX, 9, pp. 255-259.
2018	aj	G. Giulioni . An Agent-based Modeling and Simulation Approach to Commodity Markets, Social Science Computer Review
2017	aj	P. D'Orazio, G. Giulioni . From micro behaviors to macro dynamics: an Agent-based economic model with consumer credit, The Journal of Artificial Societies and Social Simulation, 20(1) article n. 9
2017	aj	G. Giulioni , M. Silvestri, E. Bucciarelli. Firms' Finance in an Experimentally Microfounded Agent-based Macroeconomic Model. Metroeconomica, 68(2) pp. 259-320
2016	ap	I. Verna, E. Bucciarelli, G. Giulioni , M. Silvestri. The teaching evaluation model: A web application framework. In Baji et al. Highlights of Practical Applications of Scalable Multi-Agent Systems. The PAAMS Collection. Communications in Computer and Information Science series vol. 616, pp. 435-443. Springer Verlag. DOI: 10.1007/978-3-319-39387-2_37
2015	aj	G. Giulioni . Policy interest rate, loan portfolio management and bank liquidity. The North American Journal of Economics and Finance, volume 31, pages 52-74.
2015	eb	Omatu, S., Malluhi, Q.M., Gonzalez, S.R., Bocewicz, G., Bucciarelli, E., Giulioni, G. , Iqba, F., Distributed Computing and Artificial Intelligence, 12th International Conference, Advances in Intelligent Systems and Computing, Vol. 373 Springer-Verlag.
2015	av	G. Giulioni , E. Bucciarelli, M. Silvestri and P. D'Orazio. Building artificial economies: from aggregate data to experimental microstructure. A methodological survey. In Amblard, F., Miguel, F.J., Blanchet, A., Gaudou, B. (Eds.), Advances in Artificial Economics, Lecture Notes in Economics and Mathematical Systems Volume 676, 2015, pp 69-78.
2014	av	G. Giulioni , E. Bucciarelli, M. Silvestri and P. D'Orazio. Parallel experiments with real and artificial agents: a methodological survey. In Lecture Notes in Economics and Mathematical Systems, Springer-Verlag.
2014	ap	G. Giulioni , E. Bucciarelli, M. Silvestri and P. D'Orazio. Avatar-based Macroeconomics - Experimental Insights into Artificial Agents Behavior. In Proceedings of the 6th International Conference on Agents and Artificial Intelligence, pages 272-277 DOI: 10.5220/0004917902720277

2013	aj	G. Giulioni , E. Bucciarelli, M. Silvestri and P. D’Orazio. The educational relevance of experimental economics: a web application for learning entrepreneurship at high schools, universities and workplaces. <i>International Journal of Technology Enhanced Learning</i> Vol. 5, Nos. 3/4, 2013, pp. 240-270
2013	av	G. Giulioni , E. Bucciarelli, M. Silvestri and P. D’Orazio (2013). Towards a Multi-Avatar Macroeconomic System. In Yves Demazeau, Toru Ishida, Juan Manuel Corchado, and Javier Bajo (Eds.) <i>Advances in Practical Applications of Agent and Multi-Agent Systems. Lecture Notes in Computer Science</i> vol. 7879, pp. 97-109. Springer-Verlag.
2013	av	G. Giulioni , E. Bucciarelli, M. Silvestri and P. D’Orazio (2013). Learning to be an Entrepreneur: Evidence From a Technology Enhanced Learning tool. In Pierpaolo Vitorini, Rosella Genari, Ivana Marenzi, Tania Di Mascio and Fernando De la Prieta (Eds.) <i>2nd International Workshop on evidenced-based Technology Enhanced Learning. Advances in Intelligent and Soft-Computing</i> vol. 218. Springer-Verlag.
2013	av	G. Giulioni , E. Bucciarelli, M. Silvestri and P. D’Orazio (2013). Towards a Knowledge-Driven Application Supporting Entrepreneurs Decision-Making in an Uncertain Environment. In Jorge Casillas, Francisco J. Martíacutenez-Lóacuteppez, Rosa Vicari and Fernando De la Prieta (Eds.) <i>Management Intelligent Systems. Second International Symposium. Advances in Intelligent and Soft-Computing</i> vol. 220. Springer-Verlag.
2012	av	G. Giulioni , E. Bucciarelli and M. Silvestri. Modeling Firms Financial behavior in an evolving economy by using artificial intelligence. In Javier Bajo Péacuterez et. al. <i>Highlights in Practical Applications of Agents and Multi-Agent Systems</i> . Springer-Verlag.
2012	av	G. Giulioni and E. Bucciarelli. A Basic Model of Take-Off and Fertility Choices in the Economic Development Process. In B. Chiarini and P. Malanima (eds) <i>From Malthus’ Stagnation to Sustained Growth Social, Demographic and Economic Factors. Series: Central Issues in Contemporary Economic Theory and Policy</i> . Palgrave Macmillan
2012	ap	G. Giulioni , E. Bucciarelli and M. Silvestri. Exploring firms financial decisions by human and artificial agents. Toward an Assessment of Minsky’s Financial Instability Hypothesis. <i>Proceedings of 4th International Conference on Agents and Artificial Intelligence, ICAART 2012</i> , Joaquim Filipe and Ana Fred (Eds.), Vol. 2, ISBN: 978-989-8425-96-6, pp. 184-189.
2011	aj	G. Giulioni . The product innovation process and GDP dynamics. <i>Journal of Evolutionary Economics</i> . Volume 21, Number 4, 595-618, DOI: 10.1007/s00191-010-0216-y
2011	aj	G. Giulioni , E. Bucciarelli. Agents’ ability to manage information in centralized markets: comparing two wholesale fish markets. <i>Journal of Economic Behavior and Organization</i> Vol. 80 pp. 34-49.

2011	aj	M. Gallegati, G. Giulioni , A. Kirman, A. Palestini. What's that got to do with the price of fish? Buyers behavior on the Ancona fish market. Journal of Economic Behavior and Organization Vol. 80 pp. 20-33.
2011	aj	G. Giulioni , E. Bucciarelli. A basic model of take-off and fertility choices in the economic development process. Rivista di Politica Economica Vol. 100 pp. 125-148.
2011	aj	G. Giulioni and E. Bucciarelli. Agents behavior in a sequential Dutch auction: evidence from the Pescara wholesale fish market. Applied Economics Letters. Vol. 18, pp. 455-460
2010	av	G. Giulioni and E. Bucciarelli. Towards and Agent-Based Model of the Economic Development Process: The Dynamics of the Fertility Rate. In Li Calzi, Milone and Pellizzari (2010) Progress in Artificial Economics. Springer Verlag.
2010	aj	G. Giulioni . Endogenous recessions: The creative destruction effect of final product novelty. Economic Modelling. Vol. 27(2), pp. 516-522.
2010	aj	F. Affortunato, E. Bucciarelli, M. Ciommi and G. Giulioni . Assessing local knowledge dynamics: Regional Knowledge Economy Indicators. International Journal of Business, Economics, Finance and Management Sciences. Vol. 2(1), pp. 18-2
2009	av	G. Giulioni . A potential disadvantage of a low interest rate policy: the instability of banks liquidity . In Hernández C., Posada M.e López-Paredes A. Artificial Economics The Generative Method in Economics pp. 3-14. Springer-verlag.
2009	av	G. Giulioni . complex systems dynamics in an economic model with mean field interactions. In: C. Bertelle; G.H.E. Duchamp; H. Kadri-Dahmani (eds). Complex Systems and Self-Organization Modelling. pp. 189-200, Springer-verlag. Originally published in A. Nketsa, M. Paludetto (2006), C. Bertelle. Modelling and simulation 2006. isbn: 90-77381-30-9. : Eurosis-eti.
2008	b	D. Delli Gatti, E. Gaffeo, M Gallegati, G. Giulioni , A. Palestini. (2008). Emergent Macroeconomics. Springer-Verlag. New Economic Windows series.
2008	ap	G. Giulioni , E. Bucciarelli and D. Scamuffa (2008). e-learning economics: a european corporate perspective. in J. Luca e E.R. Weippl, Proceedings of ED-MEDIA 2008 (World Conference of Educational Multimedia, Hypermedia & Telecommunications, Vienna, 30 giugno - 4 luglio 2008). Association for Advancement of Computing in Education, p. 94-99, isbn/issn: 1-880094-65-7
2008	av	G. Giulioni and E. Bucciarelli(2008). Understanding the price dynamics of a real market using simulations: the Dutch auction of the Pescara wholesale fish market. In: K. Schredelseker e Florian Hauser. Complexity and Artificial Markets. Springer-verlag

2007	aj	D. Delli Gatti, C. Di Guilmi, M Gallegati, G. Giulioni (2007). Financial fragility, industrial dynamics and business fluctuations in an agent based model. <i>Macroeconomic Dynamics</i> . Vol 11, issue S1, issn: 1365-1005. doi:10.1017/s136510050706018x.
2007	aj	D. Delli Gatti, E. Gaffeo, M. Gallegati, G. Giulioni , A. Kirman, A Palestrini, A. Russo. (2007). Complex dynamics and empirical evidence. <i>Information Sciences</i> . Vol. 177, issue 5, issn: 0020-0255.
2007	av	G. Giulioni (2007). Macroeconomic effects of the interest rate level: growth and fluctuations in an economy with bank capital adequacy standards. In A. Consiglio Artificial market modeling. (pp. 17-32). : springer-verlag.
2007	ap	W. Streitberger, T. Eymann, D. Veit, M. Catalano, G. Giulioni , L. Joita e O. Rana (2007). Evaluation of Economic Resource Allocation in Application Layer Networks - A Metrics Framework. In A. Oberweis, H. Gimpel, V. Pankratius, C. Weinhardt, A. Koschmider e B. Schnizler, <i>Wirtschaftsinformatik</i> (1), University of Karlsruhe. P. 477-494.
2006	ap	G. Giulioni (2006). Basel accords, interest rate setting and the growth rate of the economy. In: Coskun Can Aktan. <i>Advances in economics: theory and applications</i> . (vol. 2). isbn: 975-6339-06-3. Izmir: Yasar University (Turkey).
2006	av	G. Devatag, E. Gaffeo, M. Gallegati, G. Giulioni (2006). Financial fragility and scaling distributions in the laboratory. In: A. Namatame, T. Kaizouji, Y. Aruka. <i>The complex networks of economic interactions: essays in agent-based economics and econophysics</i> . isbn: 3-540-28726-4. : Springer-Verlag.
2006	av	E. Gaffeo, D. Delli Gatti, M. Gallegati, G. Giulioni , A. Kirman, A. Palestrini, A. Russo. (2006). Complex dynamics, financial fragility and stylized facts. In: P. Mathieu, B. Beaufils, O. Brandouy. <i>Artificial economics. agent-based methods in finance, game theory and their applications</i> . Springer-Verlag.
2006	av	D. Delli Gatti, M. Gallegati and G. Giulioni (2006). Banche e imprese. In Pietro Terna, Riccardo Boero, Matteo Morini e Michele Sonnessa (editors), <i>Simulazione, modelli ad agenti e scienze sociali</i> , (2006) Il Mulino Bologna.
2006	ap	W. Streitberger, M. Reinicke, T. Eymann, M. Catalano, G. Giulioni (2006). Economic evaluation framework of resource allocation methods in service-oriented architectures. In: <i>e-commerce technology, 2006. the 8th ieee international conference on and enterprise computing, e-commerce, and e-services, the 3rd IEEE international conference on</i> . isbn/issn: 0-7695-2511-3.

2005	aj	D. Delli gatti, C. Di Guilmi, E. Gaffeo, G. Giulioni , M. Gallegati, A. Palestrini. (2005). A new approach to business fluctuations: heterogeneous interacting agents, scaling laws and financial fragility. Journal of Economic Behavior and Organization. vol. 56, pp. 489-512 issn: 0167-2681.
2005	aj	T. Eymann, M. Reinicke, W. Streitberger, O. Rana, L. Joita, D. Neumann, B. Schnizler, D. Veit, O. Ardaiz, P. Chacin, I. Chao, F. Freitag, L. Navarro, M. Catalano, M. Gallegati, G. Giulioni , R Carvajal Schiaffino, F. Zini. (2005). Catallaxy-based grid markets. Multiagent and Grid Systems. issn: 1574-1702.
2005	av	D. Delli Gatti, C. Di Guilmi, E. Gaffeo, M. Gallegati, G. Giulioni , A. Palestrini. (2005). Firms' size distribution and growth rates as determinants of business fluctuations. In: M. Salzano, A. Kirman. Economics: complex windows. isbn: 88-470-0279-6. : Springer-Verlag.
2004	aj av	D. Delli Gatti, C. Di Guilmi. E. Gaffeo, G. Giulioni , M. Gallegati, A. Palestrini (2004). Business Cycle Fluctuations and Firms' Size Distribution Dynamics. Advances in Complex System, issn: 0219-5259. Also published in R. Leombruni e M. Richiardi (eds), Industry and labor dynamics. World Scientific Publishing, ISBN/ISSN: 981-256-100-5.
2003	aj	D. Delli Gatti, M. Gallegati, G. Giulioni , A. Palestrini (2003). Financial fragility, patterns of firms' entry and exit and aggregate dynamics. Journal of Economic Behavior & Organization, vol. 51; p. 79-97, ISSN: 0167-2681
2003	aj av	M. Gallegati, G. Giulioni e N. Kichiji (2003). Complex Dynamics and Financial Fragility in an Agent Based Model. Advances in Complex System, ISSN: 0219-5259. Also published in Vipin Kumar, Marina L. Gavriloa, Chih Jeng Kenneth Tan e Pierre Lecuyer. Computational Science and Its Applications - ICCSA 2003. p. 770-779, Berlino: Springer-verlag, ISBN/ISSN: 3-540-40155-5
2003	aj	E. Gaffeo, M. Gallegati, G. Giulioni e A. Palestrini (2003). Power laws and macroeconomic fuctuations. Physica. A, vol. 324; p. 408-416, ISSN: 0378-4371
2003	av	G. Giulioni, D. Delli Gatti e M. Gallegati (2003). Financial fragility, heterogeneous agents' interactions, and aggregate dynamics. In: R. Cowan e N. Jonard. Heterogeneous Agents, Interactions, and Economic Performances. , Berlino: Springer-verlag, ISBN/ISSN: 3-540-44057-7