

TOMMASO CIARLI (PhD)

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Academic Positions

Researcher, Max Planck Institute of Economics, Germany *September 2008-...*

Post–Doc Research fellow, Manchester Metropolitan University, UK *June 2007-May 2008*
One year scholarship

Lectureship in Development Economics, University of Bologna, IT *Sept. 2005-February 2008*
Temporary contract as course convenor

Research Fellow, University of L'Aquila, IT *June 2006-May 2007*
One year scholarship

Education

PhD in Economics, 2005

Joint programme Birmingham University, UK & University of Ferrara, Economics Dpt, IT

Master (MA) in Development Economics, 2002

University of Sussex, Brighton, UK

Degree (Laurea) in Economics and Social Disciplines, 2000

Bocconi University, Milan, IT

Research and Teaching Interests

Institutional change, technological change, and economic development

Structural change, income growth, and distribution

Firm and industry organisation, innovation, and organisation of tasks

Publications

Journals

- Ciarli, T., Lorentz, 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):180-218
- Windrum, P., Ciarli, T., and Birchenhall, C. (2009a). Consumer heterogeneity and the development of environmentally friendly technologies. **Technological Forecasting and Social Change**, 76(4):533-551
- Windrum, P., Ciarli, T., and Birchenhall, C. (2009b). Environmental impact, quality, and price: Consumer trade-offs and the development of environmentally friendly technologies. **Technological Forecasting and Social Change**, 76(4):552-566
- Ciarli, T., Leoncini, R., Montresor, S., and Valente, M. (2008). Technological change and the vertical organisation of industries. **Journal of Evolutionary Economics**, 18(3-4):367-387, reprinted in Cantner, U., Gaffard, J.-L., and Nesta, L., editors (2009) *Schumpeterian Perspectives on Innovation, Competition and Growth*, pages 115-136. Springer Verlag
- Ciarli, T., Leoncini, R., Montresor, S., and Valente, M. (2007). Innovation and competition in complex environments. **Innovation: Management, Policy & Practice**, 9(3-4):292-310

- Ciarli, T. and Rabellotti, R. (2007). ICTs in industrial districts: An empirical analysis on adoption, use and impact. **Industry and Innovation**, 14(3):277-303

Selected book chapters

- Ciarli, T., Leoncini, R., Montresor, S., and Valente, M. (2010c). Product architecture and firm organisation: The role of interfaces. In Ahrweiler, P., editor, *Innovation in Complex Social Systems*, chapter 18, 262-274. Routledge, London
- Ciarli, T., Leoncini, R., Montresor, S., and Valente, M. (2010d). Linking technological change to organisational dynamics: Some insights from a pseudo-nk model. In Leoncini, R. and De Liso, N., editors, *Internationalization, Technological Change and the Theory of the Firm*. Routledge, London
- Ciarli, T. and Valente, M. (2005). Firms interaction and industrial development: A simulation model. In Giuliani, E., Rabellotti, R., and Van Dijk, M. P., editors, *Clusters Facing Competition: The Importance of External Linkages*, pages 259-289. Ashgate, Aldershot
- Ciarli, T. and Giuliani, E. (2005). Inversión extranjera directa y encadenamientos productivos en Costa Rica. In Cimoli, M., editor, *Heterogeneidad estructural, asimetrías tecnológicas y crecimiento en América Latina*, volume LC/W 35, pages 127-162. ECLAC/IDB, Santiago.
- Ciarli, T. and Valente, M. (2004). A generalised computational model of firms production and interactions: Preliminary results on industrial dynamics. In Richiardi, M. and Leombruni, R., editors, *Industry and Labour Dynamics. The Agent-based Computational Economics Approach*. Proceedings of the Wild@Ace 2003 Conference, pages 297-331. World Scientific Publishing, Singapore

Selected working papers

- Ciarli, T., Parto, S., and Savona, M. (2010a). Entrepreneurship under conflict in Afghanistan: Determinants and motivations of small business owners. *mimeo*, Max Planck Institute of Economics, Jena, Germany
 - previous version: Ciarli, T., Parto, S., and Savona, M. (2010b). Conflict and entrepreneurial activity in Afghanistan. Findings from the national risk vulnerability assessment data. *WIDER Working Paper 2010/08*, UNU-WIDER, Helsinki, Finland
- Ciarli, T., Lorentz, A., Savona, M., and Valente, M. (2010b). Structural transformations in production and consumption, long run growth and income disparities. *SPRU Electronic Working Paper 182*, SPRU
- Arora S., Ciarli T., and Parto S. (2010), Role of Institutions in Evolutionary Perspectives on Innovation and Growth, *mimeo*, Max Planck Institute of Economics, Jena
 - previous version: Parto, S., Ciarli, T., and Arora, S. (2005). Economic growth, innovation systems, and institutional change: A trilogy in five parts. *MERIT Research Memorandum series 2005-21*, Maastricht University, The Netherlands
- Ciarli, T. and Valente, M. (2007). Production structure and economic fluctuations. *LEM Working paper Series 2007/02*, Laboratory of Economics and Management Sant'Anna School of Advanced Studies, Pisa

Miscellanea

- Ciarli, T. (2010). Review of: Innovation networks. New approaches in modelling and analyzing, A. Pyka and A. Scharnhorst (eds). **Journal of Artificial Societies and Social Simulations**, 13(1)
- Ciarli, T., Parto, S., and Savona, M. (2009). Conflict and entrepreneurial activity in Afghan provinces: A preliminary analysis. **EPS Quarterly**, 21(2):4-5 8-9

Work in Progress

Product Variety and Changes in Consumption Patterns: The Effects of Structural Change on Growth, *mimeo* (2010) Max Planck Institute of Economics

Global knowledge structure and changes in cultivation practices: production and export of Indian Basmati, with S. Arora, and M. Savona

Causality between export and productivity growth of firms revisited: Chile 2001-2007, with A. Coad and A. Moneta

Heterogeneous demand for environmentally friendly technologies: environmental promise and market failure

Regional structural change and small firms' adaptabilities: Evidence from Italian firm-level data, with P. Seri, *mimeo* (2010), Max Planck Institute of Economics

Grants

An evolutionary approach to development and institutions: an application to technological change in the agrofood sector, € 60,000 2010-2011

Coordinator: Tommaso Ciarli.

Funding body: DIME Network of Excellence, European Union 6th Framework Programme.

Teaching

An Introduction to Economic Growth and Development, Course coordinator Fall 2010
Friedrich Schiller University Jena, Jena Graduate School, GSBC-EIC, Phd

Agent-Based simulations with Laboratory for Simulation Development, Lecturer Fall 2010
National research Council, Phd school

School on Simulation Modelling, Lecturer Fall 2009
Friedrich Schiller University Jena, Jena Graduate School, GSBC-EIC, Phd

Globalisation Strategy, Lecturer Winter 2008
Manchester Metropolitan University, Msc

Development Economics, Course coordinator Winter 2006 & 2007
University of Bologna, Post-Graduate

Simulation in Evolutionary Economics, Lecturer Spring 2004 to 2010 (yearly)
Université L. Pasteur, BETA, Strasbourg, France, PhD school

Comparative Analysis of Italian and Latin American Industrial Districts, Course coordinator Summer 2003
Economic Commission for Latin America and the Caribbean (ECLAC), Master

Referee

Advances in Complex Systems, Industrial and Corporate Change, Industry & Innovation, International Journal of Innovation and Technology Management, Journal of Economic Interaction and Coordination, Journal of Evolutionary Economics, Natural Resource Forum, Regional Studies (Best Referee 2009 prize), Research Policy, Small Business Economics, Structural Change and Economics Dynamics

Related Professional Experiences

Researcher, ECLAC, UN, Santiago, Chile 2004
The effect of trade and FDI on Costa Rican industrial development and structural change: fieldwork, analysis, and publication

Research advisor & Lecturer, UNIDO, UN, Dar Es Salaam, Tanzania 2001
Training on small business development, SME's network formation, and local development: lectures

Research assistant, ECLAC, UN, Santiago, Chile 2000 - 2001
The role of Business Development Centres on the industrial development of Italian Regions: fieldwork and analysis

Research advisor, UNIDO, Vienna, Austria 2000

Evaluation of the impact of UNIDO's small and medium enterprises network project: analysis and publication

Research advisor, UNIDO, Managua, Nicaragua

2000

Evaluation of the impact of UNIDO's small and medium enterprises network project: fieldwork, analysis, and report

Conferences (two years)

Economic Science with Heterogeneous Interacting Agents Alessandria, Italy 2010; *Technical Change: History, Economics and Policy* Sussex Brighton, UK 2010; *Industrial Dynamics and Sectoral Systems in Developing Economies* Bocconi Milan, Italy 2009; *Markets and Firms Dynamics* LEM, Antilles, Guadeloupe 2009; *Experimental methods and Innovation* MPI Jena, Germany 2009; *Technology, skills and geography*, Sussex Brighton, UK 2009; *Developments in Economic Theory and Policy*, Bilbao, Spain 2009; *European Meeting on Applied Evolutionary Economics*, MPI Jena, Germany 2009; *Eco-Innovations and Global Sustainable Development*, UNU-MERIT, Maastricht, The Netherlands 2009; *UNU-WIDER Workshop on Entrepreneurship and Conflict*, INCORE Derry, UK 2009; *Economic Growth and Development*, Indian Statistical Institute, New Delhi, India 2008

Invited speaker & Seminars (two years)

UFRJ Rio de Janeiro Brazil 2010; *Advances in Economic Dynamics and Development* UFPR Curitiba Brazil 2010; *European School on New Institutional Economics (ESNIE)* 2010 Cargese France; German Council on Foreign Relations Brussels 2010; *Globalisation and the changing geographies of production and innovation* Utrecht University 2009; SPRU University of Sussex.

Conferences Organised

Technology, institutions and development: Perspectives from economics, anthropology and geography on agrarian change, MPI Jena Germany 2011; *Process, Technology, and Organisation*, LEM S'Anna Pisa, Italy 2010; *Research in Economics: The Importance of Methodology in Social Sciences*, University of Turin, Italy 2005; *Micro and Macro Dynamics in the Development Process*, University of Varese, Italy 2005; *Research in Economics: Aims and Methodologies*, University of Pavia, Italy 2004; *Research in Economics: Methodology Coherence Effectiveness*, University of Siena, Italy 2003.

Summer Schools

Society for the Study of Economic Inequality (ECINEQ), Spain 2006; *Intensive course in Agent-Based Computational Economics*, University of Trento 2006; *Intensive course in Evolutionary Economic Dynamics*, University of Trento 2005; *National Systems of Innovation and Economic Development*, IST Lisbona 2005; *Models for Complex Systems in Human and Social Sciences*, Ecole Normale Supérieure de Lyon 2004; *Simulation in Evolutionary Economics*, University of Strasbourg 2003; *European Summer School on Industrial Dynamics*, Cargèse 2002.

Scholarships

Three years PhD scholarship,
Italian Ministry of Education

May 2001 - May 2004

Marie Curie Visiting Scholarship,
MERIT, Maastricht University, The Netherlands

Dec 2003 - May 2004

Languages

Italian, Mother tongue; *English*, fluent; *French*, fluent reading and speaking; *Spanish*, fluent reading and speaking