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## Stefano Breschi

### Curriculum vitae, December 2010

#### Biographical details

- Birth place: Genova (Italy).
- Birth date: August 1 1963.
- Citizenship: Italian.

#### Education and training

- PhD in Economics, Università degli Studi di Pavia, Italy (September 1994).
- MSc in Technology Policy and Innovation Management, University of Limburg, Maastricht, The Netherlands (March 1993).
- B.A. in Economics. Università Commerciale L. Bocconi, Italy (July 1989).

#### Academic appointments

- National (Italian) habilitation to full professorship (February 2007).
- Associate professor of Industrial Economics, Department of Economics, Università Commerciale L. Bocconi, Milan, Italy (November 2001 to present).
- Assistant Professor (*Ricercatore*), Department of Economics, Università C. Cattaneo, Castellanza, Varese, Italy (October 1996-October 2001).
- Research fellow (*assegno di ricerca*), Department of Economics, Università Commerciale L. Bocconi, Milan, Italy (November 1993-September 1996).

#### Areas of interest

Industrial dynamics. Microeconomics of technical change. Economics of patent system. Economics of science. Economic geography. Social network analysis.

### Research experience (EU funded projects)

- Measurement and analysis of knowledge and R&D exploitation flows, assessed by patent and licensing data (Research project funded by the EU, DG Research. Duration: 2010-2013. Role in the project: principal investigator).
- Advancing knowledge-intensive entrepreneurship and innovation for economic growth and social well-being in Europe (Research project funded by the EU under FP7. Duration: 2009-2011. Role in the project: senior researcher <http://www.aegis-fp7.eu/>).
- Using performance indicators in monitoring the implementation of ICT research in FP6 and FP7 (Research project funded by the EU, DG INFSO. Duration: 2009-2010. Role in the project: principal investigator. [http://ec.europa.eu/dgs/information\\_society/evaluation/studies/s2008\\_01/index\\_en.htm](http://ec.europa.eu/dgs/information_society/evaluation/studies/s2008_01/index_en.htm)).
- Knowledge-Based Entrepreneurship: Innovation, Networks and Systems (Research project funded by the EU, DG Research. Duration: 2005-2007. Role in the project: senior researcher. <http://www.cespri.unibocconi.it/networks>).
- Highly-cited patents, highly cited publications and research networks (Research project funded by the EU, DG Research, Directorate M. Duration: 2005-2006. Role in the project: principal investigator. <http://www.cespri.unibocconi.it/projects>).
- Evaluation of progress towards a European Research Area for Information Society Technologies (Research project funded by the EU, DG IST. Duration: 2005. Role in the project: senior researcher. <http://www.cespri.unibocconi.it/projects>).
- Innovation, Networks and the Creation of Knowledge (Research project funded by the EU, DG Research. Duration: 2002-2004. Role in the project: senior researcher. <http://www.cgl.uwaterloo.ca/~racowan/iNeck>).
- Science, Technology, Innovation Network Indicators (Research project funded by the EU, DG Research. Duration: 2002-2004. Role in the project: principal investigator. <http://www.stinet.org>).
- Innovation-Related Knowledge Flows in the European Industry (Research project funded by the EU, DG XII. Duration: 1999-2001. Role in the project: senior researcher. <http://www.cespri.unibocconi.it/projects>).
- Sectoral Systems in Europe: Innovation, Competitiveness and Growth (Research project funded by the EU, DG XII. Duration: 1999-2001. Role in the project: senior researcher. <http://www.cespri.unibocconi.it/projects>).

- Dynamic Capabilities Growth and Long-Term Competitiveness of European Firms (Research project funded by the EU, DG XII. Duration: 1998-1999. Role in the project: senior researcher. <http://www.cespri.unibocconi.it/projects>).
- Industrial Districts and Localized Technological Knowledge: The Dynamics of Clustered SMEs Networking (Research project funded by the EU, DG XII. Duration: 1997-1999. Role in the project: senior researcher. [http://www.fondazionerosSELLI.it/User.it/index.php?PAGE=Sito\\_en/centri\\_ricer1&unit\\_id=14&rice\\_id=287](http://www.fondazionerosSELLI.it/User.it/index.php?PAGE=Sito_en/centri_ricer1&unit_id=14&rice_id=287)).
- Innovation Systems and European Integration (Research project funded by the EU, DG XII. Duration: 1996-1997. Role in the project: senior researcher. <http://www.cespri.unibocconi.it/projects>).

#### Publications (international refereed journals)

- Breschi, S. & Tartari, V. (2010). Set them free. Scientists' perception of benefits and costs of university-industry research collaboration (*Industrial and Corporate Change*, revise and resubmit).
- Breschi, S. & Catalini, C. (2010). Tracing the links between science and technology: An exploratory analysis of scientists' and inventors' networks. *Research Policy*, 39(1), 14-26.
- Breschi, S. & Lenzi, C. (2010). Spatial patterns of inventors' mobility: Evidence on US urban areas. *Papers in Regional Science*, 39(29), 235-250.
- Breschi, S. & Lissoni, F. (2009). Mobility of inventors and networks of collaboration: An anatomy of localised knowledge flows. *Journal of Economic Geography*, 9(4), 439-468.
- Breschi, S., Cassi, L., Malerba, F. & Vonortas, N. (2009). Networked Research: European Policy Intervention for Information and Communication Technologies. *Technology Analysis and Strategic Management*, 21(7), 833-857.
- Breschi, S., Lissoni, F. & Montobbio, F. (2008). University patenting and scientific productivity: a quantitative study of Italian academic inventors. *European Management Review*, 5(2), 91-109.
- Breschi, S., Lissoni, F. & Montobbio, F. (2006). The scientific productivity of academic inventors: new evidence from Italian data. *Economics of Innovation and New Technology*, 16(2), 101-18.
- Breschi, S., Lissoni, F. & Montobbio, F. (2005). From publishing to patenting: do productive scientists turn into academic inventors? *Revue d'Economie Industrielle*, 110(June), 75-102.

- Breschi, S. & Lissoni, F. (2005). Cross-firm inventors and social networks: localised knowledge spillovers revisited. *Annales d'Economie et de Statistique*, 79-80 July-December, 189-209.
- Balconi, M., Breschi, S. & Lissoni, F. (2004). Networks of inventors and the location of academic research: An exploration of Italian data. *Research Policy*, 33(1), 127-45.
- Breschi, S. & Cusmano, L. (2004). Unveiling the texture of a European Research Area: Emergence of oligarchic networks under EU Framework Programmes. *International Journal of Technology Management*, 27(8), 747-772.
- Breschi, S., Lissoni, F. & Malerba, F. (2003). Knowledge relatedness in firm technological diversification. *Research Policy*, 32(1), 69-87.
- Beaudry, C. & Breschi, S. (2003). Are firms in clusters really more innovative? *Economics of Innovation and New Technology*, 12(4), 325-341.
- Breschi, S. & Lissoni, F. (2001a). Knowledge spillovers and local innovation systems: A critical survey. *Industrial and Corporate Change*, 10(4), 975-1005.
- Breschi, S. & Malerba, F. (2001). Geography of innovation and economic clustering. *Industrial and Corporate Change*, 10(4), 817-33.
- Breschi, S. & Lissoni, F. (2001b). Localised knowledge spillovers vs. innovative milieux: Knowledge 'tacitness' reconsidered. *Papers in Regional Science*, 80(3), 255-73.
- Breschi, S., Malerba, F. & Orsenigo, L. (2000). Technological Regimes and Schumpeterian Patterns of Innovation. *Economic Journal*, 110(463), 388-410.
- Breschi, S. (2000). The Geography of Innovation: A Cross-Sector Analysis. *Regional Studies*, 34(3), 213-229.

#### **Publications (book chapters)**

- Breschi, S. (2011). The geography of knowledge flows. In Cooke P. et al. (Eds.), *Handbook of Regional Innovation and Growth*, Cheltenham: Edward Elgar (forthcoming).
- Breschi, S., Lenzi, C., Lissoni, F. & Vezzulli, A. (2010). The geography of knowledge spillovers: the role of inventors' mobility across firms and in space. In R. Boschma & R. Martin (Eds.), *HandBook of Evolutionary Economic Geography*. Cheltenham: Edward Elgar (pp. 353-369).

- Breschi, S., Cassi, L., Malerba, F. (2009). Knowledge search and strategic alliances: evidence from the electronics industry. In F. Malerba & N. Vonortas (Eds.) *Innovation networks in industries* (pp. 105-124). Cheltenham: Edward Elgar.
- Breschi, S., Cassi, L., Malerba, F., Vonortas, N. (2009). European policy favouring networks in ICT. In F. Malerba & N. Vonortas (Eds.) *Innovation networks in industries* (pp. 105-124). Cheltenham: Edward Elgar.
- Breschi, S. & Malerba, F. (2009). ERA, networks and their impacts. In U. Muldur, L. Soete & F. Delanghe (Eds.), *The European Research Area*. Cheltenham: Edward Elgar (pp. 160-174).
- Breschi, S. & Garavaglia, C. (2009). The co-evolution of entrepreneurship and clusters. In U. Fratesi & L. Senn (Eds.), *Growth and Innovation of Competitive Regions* (pp. 95-116). Berlin: Springer Verlag.
- Breschi, S. (2008). Innovation-specific agglomeration economies and the spatial clustering of innovative firms. In C. Karlsson (Ed.), *Handbook of Research on Clusters: Theories, Policies and Case Studies* (pp.167-192). Cheltenham: Edward Elgar.
- Breschi, S. & Malerba, F. (2005). Clusters, networks and innovation: research results and new directions. In S. Breschi & F. Malerba (Eds.), *Clusters, networks and innovation* (pp. 1-26). Oxford: Oxford University Press.
- Breschi, S., Lissoni, F. & Montobbio, F. (2005). The geography of knowledge spillovers: conceptual issues and measurement problems. In S. Breschi & F. Malerba (Eds.), *Clusters, networks and innovation* (pp. 343-378). Oxford: Oxford University Press.
- Breschi, S., Lissoni, F. & Montobbio, F. (2006). Open science and university patenting: A bibliometric analysis of the Italian case. In B. Potteberghe de la Potterie & A. De Meyer (Eds.), *Economic and Management Perspectives on Intellectual Property Rights* (pp. 83-103). Palgrave MacMillan.
- Breschi, S., Cassi, L. & Malerba F. (2006). The exploration of knowledge networks through patent citations. In B. Andersen (Ed.), *Intellectual Property Rights: Innovation, Governance and the Institutional Environment* (pp. 278-310). Cheltenham: Edward Elgar.
- Breschi, S. & Cusmano, L. (2006). Unveiling the texture of a European Research Area. In Y. Caloghirou, A. Constantelou, N. Vonortas (Eds.), *Knowledge Flows in European Industry* (pp. 268-98). London: Routledge.
- Breschi, S. & Lissoni, F. (2004). Knowledge networks from patent data: methodological issues and research targets. In H. Moed, W. Glänzel, U.

Schmoch (Eds.), *Handbook of Quantitative Science and Technology Research: The Use of Publication and Patent Statistics in Studies of S&T Systems* (pp. 613-43). Berlin: Springer Verlag.

- Breschi, S., Lissoni, F. & Malerba, F. (2004). The empirical assessment of firms' technological «coherence»: data and methodology. In J. Cantwell, A. Gambardella, O. Granstrand (Eds.), *Economics and Management of Technological Diversification* (pp. 69-97). London: Routledge.
- Breschi, S., Lissoni, F. & Orsenigo, L. (2003). Success and failure in the development of biotechnology clusters: the case of Lombardy. In G. Fuchs (Ed.), *Biotechnology in comparative perspective* (pp. 143-168). London: Routledge.
- Beaudry, C., Breschi, S. & Swann, P. (2002). Clustering, innovation and growth: A comparative study of European countries. In J.H. Dunning and J.L. Mucchielli (Eds.), *Multinational firms. The global-local dilemma* (pp. 190-213). London: Routledge.
- Breschi, S. (1999). Spatial Patterns of Innovation: Evidence from Patent Data. In F. Malerba e A. Gambardella (Eds.), *The Organisation of Economic Innovation in Europe* (pp. 71-101). Cambridge: Cambridge University Press.
- Breschi, S. & Palma, D. (1999). Localised Knowledge Spillovers and Trade Competitiveness: The Case of Italy. In M. Fischer, L. Suarez-Villa, M. Steiner (Eds.), *Innovation, Networks and Localities* (pp. 155-179). Berlin: Springer Verlag.
- Breschi, S. & Malerba, F. (1997). Sectoral Innovation Systems. In C. Edquist (Ed.), *Systems of Innovation* (pp. 130-156). London: Pinter Cassell.

#### **Books (edited)**

- Breschi S. & Malerba F. (Eds.), *Clusters, networks and innovation*. Oxford: Oxford University Press, 2005, 2nd reprint

#### **Presentations (selection)**

- Invited seminar at Stanford University, Stanford (USA), November 19 2008.
- Keynote speaker at the EIASM Conference on *Complexity and Management*, Said Business School, Oxford (United Kingdom), June 19-20 2006.
- Invited seminar at the Tinbergen Institute, Erasmus Universiteit, Rotterdam (The Netherlands), November 27 2006.

- European Academy of Management (EURAM), TUM Business School, Muenchen (Germany), May 4-5 2005.
- Keynote speaker at the 4th *European Meeting on Applied Evolutionary Economics*, Utrecht University, Utrecht (The Netherlands), May 19-21 2005 (<http://econ.geog.uu.nl/emaee/emaee.html>).
- 5th EPIP Conference on *European Policy for Intellectual Property*, Roskilde University, Copenhagen (Denmark), March 10-11 2005 (<http://www.epip.ruc.dk>).
- Seminar at the National Bureau of Academic Research (NBER), Boston (USA), February 8 2005.
- 45<sup>a</sup> Riunione Annuale della Società Italiana degli Economisti, Università di Bologna, Italy, October 22-23 2004.
- Keynote speaker at the WIPO-OECD Workshop on the *Use of Patent Statistics*, World Intellectual Property Organization, Geneva, Switzerland, October 11-12 2004 (<http://www.wipo.int/patent/meetings/2004/>).
- Keynote speaker at the 8th *Science and Technology Indicators Conference*, Leiden University, Leiden (The Netherlands), September 23-25 2004 (<http://conference.cwts.nl/>).
- AEA Conference on *Innovation and Intellectual Property*, Singapore, July 15-16 2004.
- International Conference in memory of Zvi Griliches, Paris (France), August 25-27 2003 (<http://www.nber.org/CRIW/ProgramParis.html>).
- Empirical Economics of Innovation and Patenting, ZEW-Zentrum für Europäische Wirtschaftsforschung, Mannheim (Germany), March 14-15 2003.
- DRUID Academy Winter PhD Conference, Aalborg University (Denmark), January 17-19 2003 (<http://www.druid.dk/conferences/winter2003/Paper/Breschi.pdf>) .
- NBER Summer Institute, *Productivity Workshop*, Boston (USA), July 23 2002 (<http://www.nber.org/~confer/2002/si2002/prhjprg.html>) .
- Workshop on *The Role of Labour Mobility and Informal Networks for Knowledge Transfer*, Max Planck Institut, Jena (Germany), December 5-7 2002.
- Workshop on *Clusters in high-technology: Aerospace, biotechnology and software compared*, UQAM Montreal (Canada), November 1 2002.
- Workshop on *Science as an Institution and the Institutions of Science*, Certosa di Pontignano, Siena (Italy), January 25-26 2002.
- 40th European Regional Science Association, Barcelona (Spain), August 29-September 1 2000.

### Teaching and administration

- Director of the MSc Program (*laurea specialistica*) in *Economics and Management of Innovation and Technology* (EMIT), Università Commerciale L. Bocconi, Milan (Italy) (from a.y. 2003-04 to 2009-2010).
- *Microeconomics of technical change*. Compulsory course taught in English, MSc EMIT, Università Commerciale L. Bocconi, Milan (Italy) (from a.y. 2004-05 to a.y. 2010-11).
- *The economics and organization of interfirm networks*. Elective course taught in English, MSc EMIT, Università Commerciale L. Bocconi, Milan (Italy) (from a.y. 2006-07 to a.y. 2009-10).
- *Industrial Economics*. Compulsory course taught in Italian, B.A. in Economics, Università Commerciale L. Bocconi, Milan (Italy) (from a.y. 2001-02 to a.y. 2010-11).
- *Microeconomics*. Compulsory course taught in Italian, B.A. in Management, Università Commerciale L. Bocconi, Milan (Italy) (from a.y. 2002-03 to a.y. 2004-05 and a.y. 2007-08).
- *Microeconomics*. Compulsory course taught in Italian, B.A. in Management, Università C. Cattaneo, Castellanza (VA), Italy (from a.y. 1994-95 to a.y. 2000-01).
- *Industrial Economics*. Compulsory course taught in Italian, B.A. in Management, Università C. Cattaneo, Castellanza (VA), Italy (from a.y. 1996-97 to a.y. 2000-01).

### Editorial services

- Associate editor of the *European Management Review* (from 2005 to 2008).
- Referee for the journals: *Research Policy*, *Industrial and Corporate Change*, *Economics of Innovation and New Technology*, *Journal of Evolutionary Economics*, *Structural Change and Economic Dynamics*, *Small Business Economics*, *Regional Studies*, *Social Networks*.

### Computer skills

- OS: Windows, Linux.
- Statistical and database management packages: SAS, STATA, R.
- Programming languages: SQL, MySQL.
- Software packages for social network analysis: Pajek, Ucinet, Igraph, Guess, Graphtools.

### Bibliometric indicators

- *h-index* (ISI-Web of Science): 8. The *h-index* includes two articles published in December 2001 in *Industrial and Corporate Change* (ICC). ICC has been included in ISI-SSCI starting from January 2002. Dropping these two articles, the *h-index* is equal to 7. The number of cites has been calculated using the *Cited reference search* tab of ISI-Web of Science.
- *h-index* (Publish or Perish): 23. The *Publish or Perish* software (<http://www.harzing.com/pop.htm>) reports the *h-index* based on Google Scholar. Citations to book chapters and working papers are included in the calculation.