

Francesco Lissoni

Work 1	Work 2
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CURRICULUM VITAE (November 2008)

1. Biographical details/Appointments
2. Education
3. Research interests/Ongoing research
4. Teaching
5. Administration & Management
6. Consultancy
7. Referee/Editor Activity
8. Publications

1. BIOGRAPHICAL DETAILS & APPOINTMENTS

Date of birth: 22-7-1964

Nationality: Italian

Family: married, 2 children

Languages: Italian, English

Current Appointments: - ASSOCIATE PROFESSOR of APPLIED ECONOMICS, *Department of mechanical engineering*, Università degli studi di Brescia (from 2001)

- DEPUTY DIRECTOR, *CESPRI - Centre for Research on Innovation and Internationalisation*, Istituto di Economia Politica, Università "L.Bocconi", Milan (<http://www.cespri.unibocconi.it>)

Former Appointments: - ASSISTANT PROFESSOR, *Department of mechanical engineering*, Università degli studi di Brescia (1998-2001)

- RESEARCH FELLOW, *CESPRI - Centre for Research on Innovation and Internationalisation*, Università "L.Bocconi", Milan (1994-2002)

Honorary Appointments & Scholarships:

- SCIENTIFIC ADVISORY COMMITTEE member 2008-2010, DRUID-Danish Research Unit for Industrial Dynamics (Copenhagen Business School & Aalborg University - <http://www.druid.dk>)
- FULBRIGHT VISITING SCHOLARSHIP 2004-05 (Italian Fulbright Commission; <http://www.fulbright.it/>), *Sloan School of Management*, Massachusetts Institute of Technology (Sept. 2004 – July 2005)
- VISITING FELLOW, *CRIC-Centre for Research on Innovation and Competitiveness*, University of Manchester/UMIST (Feb-Jul 1999)

2. EDUCATION

May 1997 PhD, School of Economic Studies, University of Manchester (UK). Dissertation: *Adoption, Selection, and Entry in the Diffusion of Innovations: The Case of the Prepress Industry*

March 1990 Degree in "Discipline Economiche Sociali", Università Comm. "L. Bocconi", Milano (Italy).

3. RESEARCH INTERESTS

General interests:

- Adoption of new technologies (Role of Users and Incremental Innovations; Geography of Diffusion; Entry/Exit and Adoption)
- Geography of Knowledge Diffusion (Mobility of Scientists and Inventors; Localized Knowledge Spillovers)
- Science-Technology Interaction (University-Industry Technology Transfer; Academic Entrepreneurship; Intellectual Property Rights over Academic Research Results)

Current research lines:

1. Reclassification of all European Patent Office applications (1978-2006) by inventor, in order to produce statistics on inventors' mobility across firms and in the geographical space, and to support research line 2 (see below)
2. Identification of university-invented patents in Italy, France, Sweden, the Netherlands and Denmark. University-invented patents are identified by matching inventors' names (see above) to lists of academic scientists provided by government, universities, and learned associations
3. Conceptual analysis of Academic Entrepreneurship
4. Analysis of academic scientists' productivity (number/quality of publications) and careers, as influenced by the scientists' relationship with industry

4. TEACHING

a.y. 2008-09	<u>Economics and Management of Innovation</u> , Executive Master Programmes, Hanoi Open University and National Economics University (Ho Chi Minh City) [joint with Solvay Business School, Université Libre de Bruxelles], December 2008 (in English)
a.y. 2008-09	<u>Intellectual Property Rights and Technology Transfer</u> , Corso di Laurea Specialistica in “Economics and Management of Innovation and Technology” (EMIT), Università Bocconi, Milano (in English)
from 2006	<u>Economics of Innovation</u> , joint <i>PhD programme on Economics & Management of Technology</i> (Università di Bergamo, Università di Brescia, Politecnico di Torino)
from a.y. 2005-06	<u>Econometrics</u> , Corso di Laurea Specialistica in Ingegneria Gestionale (<i>MA Engineering&Management</i>), Università degli studi di Brescia
from a.y. 2000-01	<u>Economics of Innovation</u> , Corso di Laurea Specialistica in Ingegneria Gestionale (<i>MA Engineering&Management</i>), Università degli studi di Brescia. [from 2007-08: in English]
a.y. 2005-06 / a.y. 2006-07	<u>Innovation and Industrial Dynamics</u> , Corso di Laurea in Mercati Internazionali e nuove Tecnologie (CLEMIT – BA in <i>Economics of International Markets and New Technologies</i>), Università Bocconi, Milano (in English)
a.y. 2003-04 / a.y. 2005-06	<u>International Competitiveness and Technological Change</u> , Manchester School of Management - Singapore Programme (2003) and Hong Kong Programme (2005) (in English)
from 2000-01 to 2003-04	<u>Macro-Microeconomics I</u> , degree in Ingegneria Gestionale (<i>Engineering&Management</i>), Università degli studi di Brescia
1998-2001	<u>Indicators & Methods for the Study of Innovation</u> , (2-day intensive workshop), European Summer School on Industrial Dynamics, Cargese (FR) http://www.dauphine.fr/imri/essid2001/welcome.html
a.y. 1999-2000, 2000-01	<u>Microeconomics I</u> degrees in: Economia Aziendale (<i>Business Studies</i>); Economia Politica (<i>Economics</i>) Università Bocconi, Milano
a.y. 1996-97, 97-98 (teaching ass.)	
from 1996-97 to 1999-2000	<u>Economics for Engineers</u> , degree in Ingegneria Meccanica (<i>Mechanical Engineering</i>), Università degli studi di Brescia
a.y. 2000-01 - 2002-03	<u>Economics of Innovation</u> , degrees in: Economia Aziendale (<i>Business Studies</i>); Economia Politica (<i>Economics</i>). Università Bocconi (joint with Prof. Franco Malerba)
a.y. 1994-95 - 1996-97	
1991-92, 1994-95, 1995-96	<u>Industrial Economics</u> , degree in Ingegneria Meccanica (<i>Mechanical Engineering</i>), Università degli studi di Brescia
a.y. 1995-96	<u>Macro-Microeconomics I</u> , degrees in: Economia Aziendale (<i>Business Studies</i>); Economia Politica (<i>Economics</i>). Università Bocconi, Milano
a.y. 1994-95 (teaching assistant)	
a.y. 1993-94 (teaching assistant)	<u>Micro-Macroeconomics I</u> , BA Economics, Università di Manchester, Faculty of Economic and Social Studies

5. ADMINISTRATION & MANAGEMENT

- from 2006 - TEACHING COMMITTEE member, *Economics & Management of Technology*", joint programme of the University of Bergamo, University of Brescia and Polytechnic of Turin
- from 2003 - MANAGING DIRECTOR, *European Summer School on Industrial Dynamics (ESSID)*, (<http://www.uni-bocconi.it/essid2008>) – Budget: € 50.000
- from 2002 - TEACHING COMMITTEE member, *European Doctorate on "Economics of Production and Development"*, Università dell'Insubria, Varese (<http://eco.uninsubria.it/dipeco/Dottorati/>)
- 2007-2009 - WORKPACKAGE COORDINATOR, *Cultural and Innovation Dynamics: Explaining the Uneven Evolution of Human Knowledge (CID)*, Specific Targeted Research or Innovation Project (Activity code addressed: NEST-2005-Path-CUL), VI Framework Programme, European Commission-DG XII / Scientific coordination: Prof. Stefano Brusoni (CESPRI-Bocconi)
- 2004-2006 - WORKPACKAGE COORDINATOR, *Universities, Entrepreneurship and Knowledge Exchange Networks (WP1.3)*, DIME Network of Excellence, 6th Framework Programme of the European Union (<http://www.dime-eu.org/>)
- 2004-06 - COORDINATOR'S ASSISTANT, *Knowledge-Based Entrepreneurship: Innovation, Networks and Systems (KEINS)*, Specific Targeted Research or Innovation Project (Priority 7), VI Framework Programme, European Commission-DG XII / Scientific coordination: Prof. Franco Malerba (CESPRI-Bocconi) – Budget: € 1.000.000
- 2003-05 - HEAD OF RESEARCH UNIT, *Open science and university patenting: a bibliometric and sociometric analysis*, Programma di Ricerca Scientifica di Rilevante Interesse Nazionale 2003, Italian Ministry of Education, / Scientific coordination: Prof. Alfonso Gambardella (Scuola Superiore S. Anna, Pisa, IT) - Budget: € 15.500
- 2002-04 - HEAD OF RESEARCH UNIT, *Innovation, Networks and the Creation of Knowledge (iNeck)*, Thematic Network, "Improving Human Research Potential and the Socio-Economic Knowledge Base" programme, V Framework Programme, European Commission--DG XII / Scientific coordination: Prof. Robin Cowan (University of Maastricht, NL) - Budget: € 15.000
- 2000-02 - COORDINATOR'S ASSISTANT, *Sistemi Settoriali: Teoria ed Analisi del Caso Italiano (Sectoral Systems: Theory and an Application to the Italian Case)* Ministero dell'Università e Ricerca Scientifica e Tecnologica / Scientific coordination: prof. F. Malerba (Cespri, Univ. Bocconi)

Other research projects, with significant involvement in management:

- 1999-2001 *Sectoral Systems in Europe: Innovation, Competitiveness, and Growth (ESSY)*; (<http://www.cespri.it/ricerca/ESSY.htm>), TSER Project (Targeted Socio-Ec. Research), IV Framework Programme, European Commission-DG XII / Scientific coordination: prof. F. Malerba (Cespri, Univ. Bocconi)
- 1998-2000 *Technology Infrastructure Policy in the Knowledge-based economy; the impact of the tendency towards codification of knowledge (TIPIK)*, TSER Project (Targeted Socio-Economic Research), IV Framework Programme, European Commission-DG XII. 7 Scientific coordination: Prof. P. Cohendet (BETA-Strasbourg Univ.)
- 1995-97 *Cambiamenti nella struttura industriale lombarda e politiche regionali per l'innovazione*, Regione Lombardia - Direzione Generale Attività Produttive. [*Structural change in Lombardy and regional policies for innovation*, Lombardy Regional Council, Directorate for Industry] / Scientific coordination: prof. F. Malerba (Cespri, Univ. Bocconi)

6. CONSULTANCY

1. ARTI (Regional Agency for Technology and Innovation of Puglia, Italy) – Assessment of scientific productivity of local universities (selected disciplines), 2008
2. Danish Board of Technology's report on "Intellectual Property Rights: improving the patent system", to be delivered to the STOA (Science&Technology Option Assessment) Panel of the European Parliament in May 2007 – Member of scientific panel
3. Confartigianato (Confederation of Craft Entreprises), Brescia, Statistical office - Member of scientific panel, 2004

7. EDITOR/REFeree ACTIVITY

Referee: Annals of Regional Science, Economia e Politica Industriale, Economics of Innovation and New Technology, Industrial and Corporate Change, Journal of Biomedical Discovery and Collaboration, Journal of Economic Behavior and Organization, Journal of Economic Geography, Journal of Evolutionary Economics, Organization Studies, Papers in Regional Science, Rivista di Politica Economica, Research Policy, Structural Change and Economic Dynamics

Editor: NEP-tid mailing list (<http://lists.repec.org/pipermail/nep-tid/>) (from 2003 to 2005)

Associate editor: Engineering and Human Sciences

8. PUBLICATIONS

Ongoing Drafts

- i. "Mobility of inventors and the geography of knowledge spillovers. New evidence on US data", CESPRI Working Paper 184 (2006), Università "L.Bocconi", Milano [Revised and resubmitted: *Journal of Economic Geography*] (<http://www.cespri.unibocconi.it/workingpapers>), – with S. Breschi.
- ii. "Academic inventors as brokers: An exploratory analysis of the KEINS database", CESPRI Working Paper 213 (2008), Università "L.Bocconi", Milano (<http://www.cespri.unibocconi.it/workingpapers>) [Revise and resubmit: *Research Policy*]
- iii. "Inventorship and Authorship in Patent-Publication Pairs: An Enquiry in the Economics of Scientific Credit", CESPRI Working Paper 224 (2008), Università "L.Bocconi", Milano (submitted to: *Journal of Economic Behavior and Organization*) (<http://www.cespri.unibocconi.it/workingpapers>) – with F. Montobbio
- iv. "University research and public-private interaction", to be published in: Rosenberg N., Hall B. (eds.), *Handbook of Economics of Technical Change*, North Holland/Elsevier – with D. Foray
- v. "What do you mean by Mobile? Multi-applicant inventors in the European Biotech Industry and their impact on Knowledge Diffusion", DRUID Working Paper 06-15 - with F. Laforgia [Revise and resubmit: *Industry & Innovation*]
- vi. "Scientific Productivity in Centralized Research Systems: Academic Physics in France and Italy", presented at: Brick-DIME workshop "The Organisation, Economics and Policy of Academic Research", Collegio Carlo Alberto, Moncalieri (Torino, Italy), July 14-15, 2008 – with J. Mairesse, F. Montobbio and M. Pezzoni
- vii. "Career progress in centralized academic systems : an analysis of French and Italian physicists", presented at: Brick-DIME workshop "The Organisation, Economics and Policy of Academic Research", Collegio Carlo Alberto, Moncalieri (Torino, Italy), July 14-15, 2008 - with M. Pezzoni and V. Sterzi.
- viii. "Institutional Change and Academic Patenting: French Universities and the Innovation Act of the 1999", presented at the 25th DRUID Celebration Conference, Copenhagen Business School (DK), June 18-20, 2008 - with A.Laforgia and P.Llerena

Articles in refereed journals (international)

1. "University patenting and scientific productivity. A quantitative study of Italian academic inventors" - *European Management Review* 5(2), May 2008, pp.91-109 - with S. Breschi and F. Montobbio
2. "Academic Patenting in Europe: New Evidence from the KEINS Database", *Research Evaluation* 16, June 2008, pp 87-102 - with P.Llerena, M.McKelvey, and B.Sanditov. Reprinted in: M. McKelvey and Magnus Holmén, (eds.), *European Universities Learning to Compete: From Social Institution to Knowledge Business*, Edward Elgar, Cheltenham (forthcoming)
3. "The scientific productivity of academic inventors: new evidence from Italian data", *Economics of Innovation and New Technology* 16/ 2, 2007, pp.101-118 - with S. Breschi and F. Montobbio
4. "Cross-Firm Inventors and Social Networks: Localised Knowledge Spillovers Revisited", *Annales d'Economie et de Statistique* 79-80, 2005 (special issue from the Zvi Griliches Conference, edited by Jacques Mairesse and Manuel Trajtenberg)- with S. Breschi
5. "From publishing to patenting: Do productive scientists turn into academic inventors?", *Revue d'Economie Industrielle* 110, 2005, pp.75-102, 2005 - with S. Breschi and F. Montobbio
6. "The reaper and the scanner: indivisibility-led incremental innovations and the adoption of new technologies", *Cambridge Journal of Economics* 29, 2005, pp. 359 - 379
7. "Networks of inventors and the role of academia: an exploration of Italian patent data" , *Research Policy* 33/1, 2004, pp. 127-145 - with M. Balconi and S. Breschi
8. "Knowledge Relatedness in Firm Technological Diversification", *Research Policy* 32/1, 2003, pp. 69-87 - with F. Malerba and S. Breschi
9. "Knowledge Spillovers and Local Innovation Systems: A Critical Survey", *Industrial and Corporate Change* 10/4, 2001, pp. 975-1005 - with S. Breschi
10. "Knowledge codification and the geography of innovation: the case of Brescia mechanical cluster", *Research Policy* 30/9, 2001, pp.1479-1500
11. "Localised Knowledge Spillovers vs. Innovative Milieux: Knowledge 'Tacitness' Reconsidered", *Papers in regional science* 80/3, 2001 - with S. Breschi
12. "Technological expectations and the diffusion of 'intermediate' technologies", *Economics of Innovation and New Technology* 9, 2000

Articles in refereed journals (Italian)

13. "L'attività brevettuale dei docenti universitari: L'Italia in un confronto internazionale", *Economia e Politica Industriale* 34/2, 2007 - with A. Della Malva, S. Breschi, F.Montobbio
14. "Brevetti universitari e economia della ricerca in Italia, Europa e Stati Uniti. Una rassegna dell'evidenza recente", *Politica Economica* 2, 2006, pp.259-381 - with F.Montobbio
15. "Selezione avversa e trasferimento tecnologico: un'analisi dei centri di servizio alle imprese della Regione Lombardia", *Economia e Politica Industriale* 105, 2000 - with L.Cusmano and M. Sironi
16. "Adozione, standardizzazione ed entrata nei processi di diffusione delle innovazioni: il caso delle tecnologie elettroniche per la pre-stampa", *L'Industria* 3/XVII, 1996
17. "La diffusione delle innovazioni di processo: un esempio tratto dall'industria grafica-editoriale", *Economia e Politica Industriale* 71, 1991.

Book chapters

18. "Academic entrepreneurs: critical issues and lessons for Europe", in: Varga A. (ed.), *Universities and regional economic development*, Edward Elgar, 2008 (forthcoming) – with C. Franzoni
19. "The geography of knowledge spillovers: the role of inventors' mobility across firms and in space", in: Boschma R. and Martin R. (eds.), *Handbook of Evolutionary Economic Geography*, Edward Elgar, 2008 (forthcoming) – with S.Breschi, C.Lenzi and A.Vezzulli
20. "Open science and university patenting: a bibliometric analysis of the Italian case", in: de Meyer A., van Pottelsberghe B. (eds), *Economics and Management Perspectives on Intellectual Property Rights*, Applied Econometrics Association Series, Palgrave-MacMillan, 2005 - with S. Breschi and F. Montobbio

21. "The geography of knowledge spillovers: conceptual issues and measurement problems", in: Breschi S., Malerba F. (eds.), *Clusters, networks and innovation*, Oxford University Press, 2005 - with S. Breschi and F. Montobbio
22. "Knowledge networks from patent data: Methodological issues and research targets", in: Glänzel W., Moed H., Schmoch U. (eds), *Handbook of Quantitative S&T Research*, Kluwer Academic Publishers, 2004 - with S. Breschi
23. "The empirical assesement of firms' technological coherence: data and methodology", in: Cantwell J., Gambardella A., Grandstand O. (eds), *The Economics and management of Technological Diversification*, Routledge, 2004 - with S. Breschi and F. Malerba
24. "Il trasferimento di conoscenze tecnologiche dall'università all'industria in Italia: nuova evidenza sui brevetti di paternità dei docenti", in: Bonaccorsi A. (ed.), *Il sistema della ricerca pubblica in Italia*, Franco Angeli, 2003 - with M. Balconi and S. Breschi
25. "How Many Networks in a Local Cluster? Textile Machine Production and Innovation in Brescia" in: Brenner T., Fornahl D. (eds.), *Cooperation, Networks and Institutions in Regional Innovation Systems*, Edward Elgar Pub., London, 2003 - with M. Pagani
26. "Le caratteristiche fondamentali del sistema innovativo italiano" in: Quadrio Curzio A., Fortis M., Galli G. (eds.), *Rapporto sulla competitività dell'Italia: scienza, ricerca, innovazione*, Edizioni del Sole24Ore, Milano, 2002 - with F. Malerba
27. "Success and failure in the development of biotechnology clusters: the case of Lombardy", in: Fuchs G. (ed.), *Comparing the development of biotechnology clusters*, Harwood Academic Publishers, 2001 - with S. Breschi and L. Orsenigo
28. "Diffusion of Innovation Ancient and Modern: A Review of the Main Themes", in: M.Dodgson, R.Rothwell (ed.), *Handbook of Industrial Innovation*, Edward Elgar Pub., Londra, 1995. Reprinted in: Lall S. (ed.), *The Economics of Technology Transfer (The International Library of Critical Writings in Economics-vol.XXX)*, Edward Elgar Pub., Londra, 2001 - with J.S.Metcalf
29. "L'intervento del Governo Britannico nella Scienza e nella Tecnologia", in: F. Malerba (ed.), *Sistemi innovativi regionali a confronto. Lombardia, Baden-Württemberg e West Midlands*, Franco Angeli, Milano, 1993 - with M.Maralla
30. "La struttura economica regionale del Regno Unito: le West Midlands", *ibid.*
31. "L'attività innovativa delle West Midlands", *ibid.*

Conference papers / Working papers (unpublished)

32. "The Keins Database on Academic Inventors: Methodology and Contents", CESPRI working paper 181, Università "L.Bocconi", Milano, October 2006 (<http://www.cespri.unibocconi.it/workingpapers>) – with B.Sanditov and G. Tarasconi
33. "Computer and Office Machinery.", proceedings from the conference on *"Innovation measurement and policies"*, Plateau du Kirchberg, Luxembourg, 20-21 May 1996, pp. 188-194; Official Publications of the European Communities, Luxembourg, 1997 - with F. Malerba and S. Torrissi
34. "Deindustrialization in Lombardy: An Empirical Assessment"
 - CESPRI WP n.88, ,Università Commerciale L. Bocconi, Milano, 1996
 - 36th congress of the European Regional Science Association, 26-30 Agosto 1996, Zurich

Course Materials

35. "Dispense e appunti per il corso di Economia dell'Innovazione", Corso di laurea in Ingegneria Gestionale, Università di Brescia, a.y. 2003-04 [<http://elearning.ing.unibs.it/bin> → Corso di laurea in Ingegneria Gestionale (V.O.) → ECONOMIA DELL'INNOVAZIONE]
36. "La diffusione delle innovazioni", in F.Malerba (ed.), *Economia dell'Innovazione*, Carocci, Roma, 2000
37. "Tecnologie concorrenti e rendimenti crescenti da adozione", *ibidem*