

ALFONSO GAMBARDELLA

Office # E1-04 (fourth floor), Department of Management & Technology, Università Bocconi
Via Roentgen 1, 20136 Milan, Italy
Tel. +39-02-58363712 (direct) or 58363504 (Valentina Manzoni)
alfonso.gambardella@unibocconi.it
<http://faculty.unibocconi.eu/alfonsogambardella/>

CURRICULUM VITAE ***(January 2018)***

Place and Date of Birth

Rome, Italy, Sept., 24th, 1961.

Education

- April 1991: Ph.D, Department of Economics, Stanford University, Stanford, California, USA.
- October 1986: Master of Arts (Economics), New York University, New York, USA.
- January 1984: Laurea (Economics & Business), University of Genoa, Italy.
- Diploma 1982: Music Conservatory “Niccolò Paganini”, Genoa, Italy (flute)

Academic Position

- 2004-today Professor, Department of Management & Technology, Bocconi University, Milan, Italy
- 2001-2004 Professor, Sant’Anna School of Advanced Studies, Pisa, Italy
- 1992-2001 Associate Professor, University of Urbino, Urbino, Italy

Research Interests

- Economics of Innovation. Strategic Management. Technology Strategy. Entrepreneurship.

Other Relevant Positions

- Co-Editor: *Strategic Management Journal* (with Sendil Ethiraj and Connie Helfat)
- Director of the Department of Management & Technology, Bocconi University
- Fellow of the Strategic Management Society (SMS)
- Research Fellow of the Center for Economic Policy Research (CEPR)
- Chair ERC Starting Grants 2017-2019
- Vice President, Consortium for Competitiveness and Cooperation (CCC)
- Editorial Board Member *Academy of Management Journal*, *Academy of Management Review*, *Industrial & Corporate Change*, *Research Policy*
- Past Chair of the *Business Policy and Strategy* (BPS) Division of the Academy of Management
- Former Dean of Bocconi’s PhD School (2008-2014)

Visiting Positions

- Visiting Professor, Sloan School of Management, MIT, Cambridge MA (2015-16)
- Visiting Professor, Department of Economics, Stanford University (Winter 2005)
- Visiting Professor, Department of Economics, Stanford University (Fall 2003)
- Visiting (Associate) Professor, Department of Economics, Stanford University (1995-96)

Main Books

- Gambardella, A., 2009, *Innovazione e Sviluppo: Miti da Sfatare, Realtà da Costruire*, Egea, Milano (in Italian)
- Arora, A. and Gambardella, A. (eds.), 2005, *From Underdogs to Tigers: The Rise and Growth of the Software Industry in Some Emergent Regions*, Oxford University Press, Oxford UK
- Bresnahan, T. and Gambardella, A. (eds.), 2004, *Building High-Tech Clusters: Silicon Valley and Beyond*, Cambridge University Press, Cambridge UK

- Arora, A., Fosfuri, A. and Gambardella, A., 2001, *Markets for Technology: The Economics of Innovation and Corporate Strategy*, The MIT Press, Cambridge MA
- Gambardella, A., 1995, *Science and Innovation*, Cambridge University Press, Cambridge UK

Journal Articles

- Gambardella, A., Harhoff, D. and B. Varpsagen, 2017, “The Economic Value of Patent Portfolios,” *Journal of Economics and Management Strategy*, Vol. 26 (4), 735-756
- Gambardella, A., Raasch, C. and E. Von Hippel, 2017, “The User Innovation Paradigm: Implications for Markets and Welfare,” *Management Science*, Vol. 63 (5), 1450-1468 (*open access* <http://pubsonline.informs.org/doi/pdf/10.1287/mnsc.2015.2393>)
- Torrisi, S., Gambardella, A., Giuri, P., Harhoff, D., Hoisl, K. And Mariani, M., 2016, “Using, blocking, and sleeping patents: empirical evidence from a large inventor survey,” *Research Policy*, Vol. 47 (7), 1374-1385
- Birhanu, A., Gambardella, A. and Valentini, G., 2016, “Bribery and Investment: Firm-level Evidence from Africa and Latin America,” *Strategic Management Journal*, Vol. 37 (9), 1865-1877 (*video abstract* www.youtube.com/watch?v=CeWj9BYU14s)
- Gambardella, A., Ganco, M. and F. Honorè, 2015, “Using What You Know: Patented Knowledge and Incumbent Firms in Employee Entrepreneurship,” *Organization Science*, Vol. 26 (2), 456-474
- Bertocchi, G., Gambardella, A., Jappelli, T., Nappi, C. and F. Peracchi, 2015, “Bibliometric Evaluation vs Informed Peer Review: Evidence from Italy,” *Research Policy*, Vol. 44(2), 451-466
- Gambardella, A., Panico, C. and G. Valentini, 2015, “Strategic Incentives to Human Capital,” *Strategic Management Journal*, Vol.36 (1), 37-52 (*video abstract* www.youtube.com/watch?v=y1s3veAmMIY)
- Gambardella, A. and Panico, C., 2014, “On the Management of Open Innovation,” *Research Policy* (Special Issue on Open Innovation), Vol. 43 (5), 903-913
- Conti, R., Gambardella, A. and M. Mariani, 2014, “Learning to Be Edison: Inventors, Organizations and Breakthrough Inventions,” *Organization Science*, Vol. 25 (3), 833-849
- Gambardella, A., 2013, “The Economic Value of Patented Inventions: Thoughts and Some Open Questions,” *International Journal of Industrial Organizations*, Vol. 31 (5), 626-633
- Conti, R., Gambardella, A. and E. Novelli, 2013, “Research on Markets for Inventions and Implications for R&D Allocation Strategies,” *Academy of Management Annals*, Vol. 7 (1), 715-772
- Gambardella, A. and Giarratana, M., 2013, “General Technological Capabilities, Product Market Fragmentation, and Markets for Technology,” *Research Policy*, Vol. 42, 315-325
- Di Stefano, G., Gambardella, A. and G. Verona, 2012, “Technology Push and Demand Pull Perspectives in Innovation Studies: Current Findings and Future Research Directions,” *Research Policy*, Vol. 41, 1283-1295
- Gambardella, A. and Giarratana, M., 2010, “Localized Knowledge Spillovers and Skill-Biased Performance,” *Strategic Entrepreneurship Journal*, Vol. 4, 323-339
- Arora, A. and Gambardella, A., 2010, “Ideas for Rent: An Overview of Markets for Technology,” *Industrial and Corporate Change*, Vol. 19 (3), 775-803
- Gambardella, A. and McGahan, A., 2010, “Business-Model Innovation, General Purpose Technologies, Specialization and Industry Change,” *Long Range Planning*, Vol.43, 262-271
- Gambardella, A., Giarratana, M., 2010, “Organizational Attributes and the Distribution of Rewards in a Region: Managerial Firms vs Knowledge Clusters,” *Organization Science*, Vol. 21 (2), 573–586
- Gambardella, A., Giarratana, M., Panico, C., 2010, “How and When Should Companies Retain their Human Capital? Contracts, Incentives, and Human Resource Implications,” *Industrial and Corporate Change*, Vol. 19 (1), 1-24
- Arora, A., Gambardella, A., Magazzini, L., Pammolli, F., 2009, “A Breadth of Fresh Air? Firm Type, Scale, Scope and Selection Effects in Drug Development,” *Management Science*, Vol. 55 (10), 1638-1653
- Gambardella, A., Mariani, M., Torrisi, S., 2009, “How ‘Provincial is Your Region? Openness and Regional Performance in Europe,” *Regional Studies*, Vol. 43 (7), 935-947
- Dosi, G., Gambardella, A., Grazzi, M., Orsenigo, L., 2008, “Technological Revolutions and the Evolution of Industrial Structures. Assessing the Impact of New Technologies on the Size and Boundaries of the Firms,” *Capitalism & Society*, Vol. 3 (1), Article 6

- Gambardella, A., Harhoff, D., Verspagen, B., 2008, "The Value of European Patent," *European Management Review*, Vol. 5 (2), 69-84
- Gambardella, A., Giuri, P., Luzzi, A., 2007, "The Market for Patents in Europe," *Research Policy*, Vol. 36 (8), 1163-1183¹
- Giuri, P., Mariani, M., Brusoni, S., Crespi, G., Francoz, D., Gambardella, A., Garcia-Fontes, W., Geuna, A., Gonzales, R., Harhoff, D., Hoisl, K., Lebas, C., Luzzi, A., Magazzini, L., Nesta, L., Nomaler, O., Palomerias, N., Patel, P., Romanelli, M., Verspagen, B., 2007, "Inventors and Invention Processes in Europe. Results from the PatVal-EU Survey," *Research Policy*, Vol. 36 (8), 1107-1127
- Gambardella, A. and Hall, B.H., 2006, "Proprietary vs Public Domain Licensing of Software and Research Products," *Research Policy*, Vol.35, 875-892
- Arora, A. and Gambardella, A., 2005, "The Impact of NSF Support for Basic Research in Economics," *Les Annales d'Economie et des Statistiques*, Special Issue in Honor of Zvi Griliches, No 79/80
- Gambardella, A., 2005, "Patents and the Division of Inventive Labor," *Industrial and Corporate Change*, Vol.14 (6), 1223-1233 (Comment to Arora and Merges, *ICC*, 2004)
- Gambardella, A., 2002, "Successes and Failures in Markets for Technology," *Oxford Review of Economic Policy*, Vol.18 (1), 52-62
- Bresnahan, T., Gambardella, A., Saxenian, A., 2001, "Old Economy Inputs for New Economy Outputs: Cluster Formation in the New Silicon Valleys," *Industrial and Corporate Change*, Vol.10 (4), 835-860
- Arora, A., Fosfuri, A., and Gambardella, A., 2001, "Markets for Technology and their Implications for Corporate Strategy," *Industrial and Corporate Change*, Vol.10 (2), 417-449
- Arora, A., Fosfuri, A., and Gambardella, A., 2001, "Specialized Technology Suppliers, International Spillovers and Investments: Evidence from the Chemical Industry," *Journal of Development Economics*, Vol. 65 (1), 31-54
- Arora, A., David, P., and Gambardella, A., 1998, "Reputation and Competence in Publicly Funded Science: Estimating the Effects on Research Group Productivity," *Les Annales d'Economie et des Statistiques*, No 49/50, 163-198
- Gambardella, A. and Torrisi, S., 1998, "Does Technological Convergence Imply Convergence in Markets? Evidence from the Electronics Industry," *Research Policy*, Vol.27, 445-463
- Arora, A., Gambardella, A., and Rullani, E., 1997, "Division of Labour and the Locus of Inventive Activity," *Journal of Management and Governance*, Vol.1 (1), 123-140
- Arora, A. and Gambardella, A., 1997, "Public Policy Towards Science: Picking Stars or Spreading the Wealth?," *Revue d'Economie Industrielle*, N.79, 63-75
- Arora, A. and Gambardella, A., 1997, "Domestic Markets and International Competitiveness: Generic and Product Specific Competencies in the Engineering Sector," *Strategic Management Journal*, Vol. 18 (Summer Special Issue), 53-74
- Gambardella, A. e Garcia, W., 1996, "Research Linkages through European Research Funding," *Economics of Innovation and New Technology*, Vol.4, 123-138
- Arora, A. and Gambardella, A., 1994, "The Changing Technology of Technical Change: General and Abstract Knowledge and the Division of Innovative Labour," *Research Policy*, Vol.23, 523-532²
- Arora, A. and Gambardella, A., 1994, "Evaluating Technological Information and Utilizing it," *Journal of Economic Behavior and Organization*, Vol.24, 91-114
- Della Valle, F. and Gambardella, A., 1993, "Biological Revolution and Strategy for Innovation in Pharmaceutical Companies," *R&D Management*, Vol.23 (4), 287-301³
- Gambardella, A., 1992, "Competitive Advantages from In-house Basic Research," *Research Policy*, Vol.21, 391-407⁴
- Arora A. e Gambardella A., 1990, "Complementarity and External Linkages: The Strategies of the Large Firms in Biotechnology," *Journal of Industrial Economics*, Vol.XXXVIII, N.4 (June), 361-379

¹ Winner of the Richard Nelson Award for the best paper by younger scholars in *Research Policy* 2005-2008. See *Research Policy* website.

² 12th most cited *Research Policy* article in 1990-1999. See *Research Policy*, December 1999, Special Issue.

³ Winner of the Epton Prize for best 1993 article in *R&D Management*. See *R&D Management*, 1994, Vol.24 (3), pp.295-6.

⁴ 6th most cited *Research Policy* article in 1990-1999. See *Research Policy*, December 1999, Special Issue.

Main Essays in Books

- Gambardella, A. and Panico, C., 2016, “Alliances and Markets for Technology,” in Mezquita, L., Ragozzino, R. and Reuer, J. (eds.) *Collaborative Strategy: Critical Issues for Alliances and Networks*, Elgar, Cheltenham UK, forthcoming
- Arora, A. and Gambardella, A., 2010, “Markets for Technology,” in Hall, B. and Rosenberg, N. (eds) *Handbook of Economics of Innovation*, Elsevier, Amsterdam
- Cassiman, B. and Gambardella, A., 2009, “Strategic Organization of R&D,” in Nickerson, J. and Silverman, B. (eds.) *Economic Institutions of Strategy*, Emerald Press, London
- Arora, A., Fosfuri, A. and Gambardella, A., 2006, “Markets for Technology: ‘Panda’s Thumbs’, ‘Calypso Policies’ and Other Institutional Considerations,” in Antonelli, C., Foray, D., Hall, B. and Steinmueller, W.E. (eds.) *New Frontiers in the Economics of Innovation and New Technology: Essays in Honour of Paul A. David*, Edward Elgar, Cheltenham UK
- Arora, A. and Gambardella, A., 2006, “Emerging Issues in the New Economy and Globalization,” in Bianchi, P. and Labory, S. (eds.) *Handbook of Industrial Policy*, Edward Elgar, Cheltenham UK
- Arora, A., Fosfuri, A. and Gambardella, A., 2005, “Markets for Technology, Intellectual Property Rights and Development,” in Maskus, K. and Reichman, J. (eds.) *International Public Goods and Transfer of Technology under a Globalized Intellectual Property Regime*, Cambridge University Press, Cambridge UK
- Arora, A. and Gambardella, A., 2005, “The Globalization of the Software Industry: Perspectives and Opportunities for Developed and Developing Countries,” in Jaffe, A., Lerner, J. and Stern, S. (eds.) *Innovation Policy and the Economy (Volume 5)*, MIT Press, Cambridge MA
- Gambardella, A., Garcia-Fontes, W., and Petit, G., 2000, “R&D, Innovation and Corporate Performance in the Chemical Industry: A Case Study,” in Buigues, P., Jacquemin, A. and Marchipont, J.F. (eds.) *Competitiveness and the Value of Intangible Assets*, Edward Elgar Publisher, Cheltenham UK
- Arora, A. and Gambardella, A., 1999, “The Chemical Industry,” in Mowery, D. (ed.) *US Industry in 2000*, National Academy Press, Washington DC
- Bresnahan, T. and Gambardella, A., 1998, “The Division of Inventive Labor and the Extent of the Market,” in Helpman, E. (ed.) *General-Purpose Technologies and Economic Growth*, MIT Press, Cambridge
- Arora, A. and Gambardella, A., 1998, “Evolution of Industry Structure in the Chemical Industry,” in Arora, A., Landau, R., and Rosenberg, N. (eds.) *Dynamics of Long-Run Growth in the Chemical Industry*, John Wiley & Sons, New York
- Arora, A. and Gambardella, A., 1995, “Division of Innovative Labour in Biotechnology,” in Rosenberg, N. and Geijins, A. (eds.) *University-Industry Interface and Medical Innovation*, National Academy of Sciences, Washington DC

Seminars, Invited Lectures and Keynote Speeches

I have given seminars on my research in several institutions in Europe and the US, including leading institutions such as Harvard Business School, INSEAD, London Business School, Sloan School MIT, Wharton. I have also been invited to give lectures or keynote speeches. For example, in 2015-16 I have been invited to give lectures or keynotes at the Aspen Institute (Hebrew University of Jerusalem, April 17, 2015), the Israeli Strategy Conference (Jerusalem, December 20-22, 2015), Singapore Management University (Lee Kong Chian Fellowship, January and May 2016), and the Winter Strategy Conference (University of Utah, March 2-4, 2016).

Op-Ed Articles (in English & Italian)

- “The Value of Precision for Entrepreneurial Decisions” *Vox*, January 6, 2018 (with Arnaldo Camuffo and Alessandro Cordova) (voxeu.org/article/value-precision-entrepreneurial-decisions)
- “Tutti pazzi per I dati. Ma servono investimenti,” *La Voce*, November 4, 2016 (www.lavoce.info)
- “Esiste la Scienza del Management?”, *Management Notes*, March 16, 2015 (www.managementnotes.it)
- “La Corruzione Non Paga”, *Management Notes*, February 4, 2015 (with Giovanni Valentini) (www.managementnotes.it)
- “Avere i Dati e Riutilizzarli per la Ripresa”, *Il Sole 24 Ore*, October 3, 2014, 12 (with Aura Bertoni)

- “Assessing Italian Research Quality: A Comparison between Bibliometric Evaluation and Informed Peer Review”, *Vox*, July 28, 2014 (with Graziella Bertocchi, Tullio Jappelli, Carmen Nappi, Franco Peracchi) (voxeu.org/article/research-quality-assessment-tools-lessons-italy)
- “Servono Infrastrutture per il Nuovo Stato Digitale”, *Il Sole 24 Ore*, June 22, 2014, 1 (with Guido Tabellini)
- “Bibliometria o Peer-Review per Valutare la Ricerca?”, *La Voce*, November 7, 2013 (with Graziella Bertocchi, Tullio Jappelli, Carmen Nappi, Franco Peracchi) (www.lavoce.info)
- “Regole Snelle e Incentivi all’Innovazione”, *Il Sole 24 Ore*, March 8, 2013, 15
- “Ma Chi Controllerà i Controllori?”, *Corriere della Sera*, July 31, 2011, 24 (with Fabio Pammolli)
- “Innovazione e Sviluppo”, *Il Sole 24 Ore*, Inserto *Nova 24*, May 7, 2009, 9
- “La Guerra Sbagliata di Mediaset”, *Corriere della Sera*, August 6, 2008, 35
- “Caccia All’Idea che Vale Oro”, *Il Sole 24 Ore*, Inserto *Nova 24*, October 4, 2007, 7
- “Brevetti Regole Oltre l’Antitrust”, *Il Sole 24 Ore*, September 22, 2007, 10 (with Fabio Pammolli)
- “Brevetti da Battere All’Asta”, *Il Sole 24 Ore*, Inserto *Nova 24*, June 14, 2007, 6
- “Alla Ricerca di Nuove Specializzazioni”, *La Voce*, January 5, 2006 (www.lavoce.info)
- “Licenza d’innovare”, *La Voce*, February 14, 2005 (www.lavoce.info)
- “Vogliamo Combattere la Povertà? Diamo Farmaci al Terzo Mondo”, *Il Riformista*, January 8, 2003, 2 (with Fabio Pammolli)
- “Docenti Universitari Vecchi? Cambiamo i Corsi di Dottorato”, *Corriere della Sera*, August 22, 2002, 5 (with Giovanni Dosi).

Participation in Research Projects

- Innovation Growth Lab (IGL) 2017-2019 “A Scientific Approach to Entrepreneurial Experimentation: Evidence from a Randomized Control Trial” [Principal Investigator]
- Italian Ministry of University and Research (MIUR) (PRIN 2012), *Market and Non-Market Mechanisms for the Exchange and Diffusion of Innovation: When Do They Work, When Do They Not Work, and Why Should We Care*, MIUR, Protocol N.2010H37KAW_001 (February 2013-February 2016) [Co-ordinator of the Project]
- European Commission, *The Changing Nature of Internationalization of Innovation in Europe: Impact on Firms and the Implications for Innovation Policy in the EU*, Contract N.217296 (May 2008-April 2011)
- European Commission, *Innovative S&T Indicators Combining Patent Data and Surveys: Empirical Models and Policy Analyses*, Contract N. 217299 (April 2008-March 2011) [Co-ordinator of the Project]
- European Science Foundation, Program European Collaborative Research Project in the Social Sciences (ECRPSS) 4th Call, *Science and Technology Research in a Knowledge-Based Economy*, (March 2006-March 2009)
- Italian Ministry of University and Research (MIUR), *Survey of Italian Inventors. The Determinants of the Value of the Italian Patents and of the Scientific Productivity. Empirical Models and Policy Implications*, MIUR, Protocol N.2003133821 (March 2007-March 2009) [Co-ordinator of the Project]
- European Commission, DG Internal Market and Services, *Study on Evaluating the Knowledge Economy – What Are Patents Actually Worth? The Value of Patents for Today Economy and Society*, Contract No ETD/2004/IM/E3/77 (December 2004-March 2006) [Co-ordinator of the Project]
- European Commission, DG Science and Technology, *The Value of European Patents: Empirical Models and Policy Implications Based on a Survey of European Inventors*, Contract N. HPV2-2001-00013 (January 2002-June 2004) [Co-ordinator of the Project]
- European Commission, DG Enterprise, *The Competitiveness of the European Pharmaceutical Industry*, (April-June 2000)
- Stanford Institute for Economic Policy Research (USA), *Silicon Valley and its Imitators*, (February 1999-February 2001)
- European Commission, DG XII, Targeted Socio-Economic Research (TSER), *Growth, Inequality and Training*, Contract N. SOE2-CT98-3073 (December 1998 – December 2000)

- European Commission, DG XII, Targeted Socio-Economic Research (TSER), *The Relationships between Science and Technology Policies and Broad Industrial Policy*, Contract N. SOE1-CT97-1053 (December 1997 - February 2000)
- European Commission, DG XII, Targeted Socio-Economic Research (TSER), *From Science to Products*, Contract N. SOE1-CT97-1059 (December 1997 - May 2000)
- European Commission, DG XII, Targeted Socio-Economic Research (TSER), *Innovation, R&D, and Productivity*, Contract N. SOE1-CT96-1020 (June 1996-June 1999)
- Sloan Foundation and Center for Economic Policy Research (Stanford), *Strategies for Growth: Lessons from the Chemical Industry*, (January 1993-July 1996)
- European Commission, DG XII, Human Capital & Mobility (HCM), *The Economics of Scientific and Technological Research in Europe*, Contract N. CHRXT920002 (July 1993 - February 1995)
- Various research programmes of the Italian Research Council (CNR), the Italian Ministry of Scientific and Technological Research (MURST), and other institutions (e.g. European Patent Office, EPO)