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CURRICULUM VITAE (April 2011)

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 Positions

- 2004-today Professor, Department of Management & Technology, Bocconi University, Milan, Italy
- 2000-2004 Professor, Sant’Anna School of Advanced Studies, Pisa, Italy
- 1992-2000 Associate Professor, University of Urbino, Urbino, Italy
- 1990-1992 Contract Professor, University of Urbino, Urbino, Italy

Research Interests

- Economics of Innovation. Strategic Management. Technology Strategy.

Main Other Academic and Professional Positions

- Dean of the PhD School, Bocconi University, Milan
- Editor (with Maurizio Zollo): *European Management Review*
- Editorial Board: *Academy of Management Review*, *Global Strategy Journal*, *Industrial and Corporate Change*, *Research Policy*, *Strategic Management Journal*
- Member of the Executive Committee of the *European Academy of Management* (EURAM) and the *Business Policy and Strategy* (BPS) Division of the Academy of Management
- Visiting Professor, Department of Economics, Stanford University (1995-1996; Fall 2003; Winter 2005)

Books

- Gambardella, A., 2009, *Innovazione e Sviluppo: Miti da Sfatare, Realtà da Costruire*, Egea, Milano.
- 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.
- Cesaroni, F., Gambardella, A., Garcia-Fontes, F. (eds.), 2004, *R&D, Innovation and Competitiveness in the European Chemical Industry*, Kluwer Publishers, Amsterdam.
- Cantwell, J., Gambardella, A., Granstrand, O. (eds.), 2004, *The Economics and Management of Technological Diversification*, Routledge, London 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. and Malerba, F. (eds.), 1999, *The organization of economic innovation in Europe*, Cambridge University Press, Cambridge UK.
- Gambardella, A., 1995, *Science and Innovation*, Cambridge University Press, Cambridge UK.

Main Publications in Journals

- 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, pp.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), pp. 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), pp. 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), pp.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), pp. 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), pp.69-84.
- Gambardella, A., Giuri, P., Luzzi, A., 2007, “The Market for Patents in Europe”, *Research Policy*, Vol. 36 (8), pp.1163-1183.¹
- 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., Palomeras, 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), pp.1107-1127.
- Gambardella, A. and Hall, B.H., 2006, “Proprietary vs Public Domain Licensing of Software and Research Products”, *Research Policy*, Vol.35, pp.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, forthcoming.
- Gambardella, A., 2005, “Patents and the Division of Inventive Labor”, *Industrial and Corporate Change*, Vol.14 (6), pp.1223-1233. (Comment to Arora and Merges, *ICC*, 2004)
- Gambardella, A., 2002, “Transaction Costs and Increasing Returns in the Market for Technology”, *Oxford Review of Economic Policy*, Vol.18 (1), pp.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), pp.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), pp.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), pp. 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, pp.163-198.
- Gambardella, A. and Torrisi, S., 1998, “Does Technological Convergence Imply Convergence in Markets? Evidence from the Electronics Industry”, *Research Policy*, Vol.27, pp.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), pp.123-140.
- Arora, A. and Gambardella, A., 1997, “Public Policy Towards Science: Picking Stars or Spreading the Wealth?”, *Revue d’Economie Industrielle*, N.79, pp.63-75.

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

- 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), pp.53-74.
- Gambardella, A. e Garcia, W., 1996, “Research Linkages through European Research Funding”, *Economics of Innovation and New Technology*, Vol.4, pp.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, pp.523-532.²
- Arora, A. and Gambardella, A., 1994, “Evaluating Technological Information and Utilizing it”, *Journal of Economic Behavior and Organization*, Vol.24, pp.91-114.
- Della Valle, F. and Gambardella, A., 1993, “Biological Revolution and Strategy for Innovation in Pharmaceutical Companies”, *R&D Management*, Vol.23 (4), pp.287-301.³
- Gambardella, A., 1992, “Competitive Advantages from In-house Basic Research”, *Research Policy*, Vol.21, pp.391-407.⁴
- 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), pp.361-379.

Main Essays in Books

- Arora, A. and Gambardella, A., 2010, “Markets for Technology”, in Hall, B. and Rosenberg, N. (eds) *Handbook of Economics of Innovation*, Elsevier, Amsterdam, forthcoming.
- 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 Geijns, A. (eds.) *University-Industry Interface and Medical Innovation*, National Academy of Sciences, Washington DC.

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.

Op-Ed Articles (in Italian)

- “Innovazione e Sviluppo”, *Il Sole 24 Ore*, Inserto *Nova 24*, May 7, 2009, p.9.
- “La Guerra Sbagliata di Mediaset”, *Corriere della Sera*, August 6, 2008, p.35.
- “Caccia All’ Idea che Vale Oro”, *Il Sole 24 Ore*, Inserto *Nova 24*, October 4, 2007, p.7.
- “Brevetti Regole Oltre l’ Antitrust”, *Il Sole 24 Ore*, September 22, 2007, p.10 (with Fabio Pammolli)
- “Brevetti da Battere All’ Asta”, *Il Sole 24 Ore*, Inserto *Nova 24*, June 14, 2007, p.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, p.2 (with Fabio Pammolli).
- “Docenti Universitari Vecchi? Cambiamo i Corsi di Dottorato”, *Corriere della Sera*, August 22, 2002, p.5 (with Giovanni Dosi).

Participation in Research Projects

- 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), *Sylicon 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)