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Current Position and Past Position

Nov. 2016 - Present **Institute of Economics, Scuola Superiore Sant'Anna, Pisa, Italy**
Assistant Professor (Tenure Track) - Ricercatore a tempo determinato ai sensi dell'articolo 24, comma 3, lett. B della legge 240/2010

Jan. 2015 - Nov. 2016 **IBIMET-CNR, Florence, Italy**
Research Fellow in the research project "Products complexity and economic performance: from countries to firms" under the supervision of Prof. Dosi at the Scuola Superiore Sant'Anna.

Dic. 2012 - Dic. 2014 **Institute of Economics, Scuola Superiore Sant'Anna, Pisa, Italy**
Post doctoral fellow (Assegnista di ricerca) in the project "The challenge of globalization: Technology driven foreign direct investment (TFDI) and its implications for the negotiation of International (bi and multilateral) Investment Agreements" funded by the Riksbank Foundation

Nov. 2010 - Nov. 2012 **Institute of Economics, Scuola Superiore Sant'Anna, Pisa, Italy**
Post doctoral fellow

July 2012 - Nov. 2012 **Télécom Ecole de Management, Paris, France**
Visiting researcher within the ECOPATENT project funded by ADEME (Agence de l'environnement et de la Maîtrise de l'énergie)(<http://ecopatents.wp.mines-telecom.fr>)

Feb. 2009 - Nov. 2010 **GSBC - EIC The Economics of Innovative Change, Friedrich-Schiller-University, Jena, Germany**
Post doctoral fellow

Education

Feb. 2005 - June 2010 **ECIS (Eindhoven Centre for Innovation Studies) Eindhoven University of Technology, The Netherlands**
Ph.D. Student in Economics of technological change.
Dissertation: "The dynamics of technological discontinuities: a patent citation network analysis of telecommunication switches" (supervisors: B. Verspagen, A. Nuvolari and B. Sadowski) Available at <http://alexandria.tue.nl/extra2/201010457.pdf>

Sept. 2003 - Sept. 2004 **SPRU (Science and Technology Policy Research) - University of Sussex, Brighton, United Kingdom**

Master in Industry and Innovation Analysis.

Dissertation: "University-Industry Technological Transfers: The case of Sussex University" (supervisors: N. von Tunzelmann and M. Meyer)

Sept. 1997 - July 2003 **Università Bocconi, Milan, Italy**

First Degree (Master Equivalent) in Economics and Social Science

Dissertation: "Innovation, Knowledge and Corporate Finance: An Empirical Analysis" (supervisors: F. Malerba and L. Bottazzi)

Feb. 2001 - July 2001 **Pontificia Universidad Catholica de Chile, Santiago**

Exchange Program

Courses: International Economics, Econometrics, Development Economics, and Corporate Finance (MBA course)

Fields of Interest

Measurement of innovation (in particular using patent and citation data). Economics of technological standards and IPR. Technological FDI from emerging countries. Industrial dynamics of the telecom industry. Industrial dynamics of high-tech sectors. University-industry linkages.

Publications

V. Cirillo, A. Martinelli, A. Nuvolari and M. Tranchero (2019), "Only one way to skin a cat? Heterogeneity and equifinality in European national innovation systems", *Research Policy*, 48 (4), 905-922

G. Capponi, P. Criscuolo, A. Martinelli and A. Nuvolari (2019), "Profiting from innovation: Evidence from a survey of Queen's Awards winners", *Structural Change and Economic Dynamics*, forthcoming

V Amendolagine, E Giuliani, A Martinelli, R Rabellotti (2018), "Chinese and Indian MNEs? shopping spree in advanced countries. How good is it for their innovative output?", *Journal of Economic Geography*, 18 (5), 1149-1176

G. Cecere and A. Martinelli (2017), "Drivers of knowledge accumulation in electronic waste management: An analysis of publication data", *Research Policy*, 46 (5), 925 - 938.

E. Giuliani, A. Martinelli and R. Rabellotti (2015), "Is Co-Invention Expediting Technological Catch Up? A Study of Collaboration between Emerging Country Firms and EU inventors", *World Development*, 77, 192 - 205.

Martinelli A. and Ö. Nomaler (2014), "Measuring knowledge persistence: A genetic approach to patent citation network", *Journal of Evolutionary Economics*, 24(3), 623 - 652.

R. Bekkers and A. Martinelli (2012), "Knowledge positions in high-tech markets: trajectories, standards, strategies and true innovators", *Technological Forecasting & Social Change*, 79(7) .

A. Martinelli (2012), "An emerging paradigm or just another trajectory? Understanding the nature of technological changes using engineering heuristics in the telecommunications switching industry", *Research Policy*, 41, 414 - 429.

A. Martinelli (2011), *The Dynamics of Technological Discontinuities: A Patent citation Analysis of the*

Telecommunication Switching Industry, Eindhoven University Press, Eindhoven, The Netherlands³
ISBN: 978-90-386-2285-9

Martinelli A., M. Meyer and N. von Tunzelmann (2008), "Becoming an entrepreneurial university? A case study of knowledge exchange relationships and faculty attitudes in a medium-sized, research-oriented university", *Journal of Technology Transfer*, 3, 259 - 283.

Working Papers

A. Martinelli, A. Mina and M. Moggi (2019), "The enabling technologies of Industry 4.0: Examining the seeds of the fourth Industrial Revolution", 2019/09 LEM Working Paper Series [Under review at Industrial and Corporate Change]

R. Bekkers, C. Catalini, A. Martinelli, C. Righi and T. Simcoe (2017) "Disclosure Rules and Declared Essential Patents", NBER Working Paper No. 23627. Available at <http://www.nber.org/papers/w23627> [Under review at the RAND Journal of Economics]

R. Bekkers, A. Martinelli, and F. Tamagni (2016) "The causal effect of including standards-related documentation into patent prior art: evidence from a recent EPO policy change", LEM (Laboratory of Economics and Management) Working Paper, Scuola Superiore Sant'Anna 2016/11. Available at <http://www.lem.sssup.it/WPLem/2016-11.html> [Under review at Research Policy]

R. Bekkers, J. Baron, A. Martinelli, Y. Ménière, O. Nomaler and T. Pohlmann (2014) "Selected quantitative studies of patents in standards", PIE/CIS Working Paper, No. 626, Hitotsubashi University, Tokyo. Available at <http://hermes-ir.lib.hit-u.ac.jp/rs/handle/10086/26727>

U. Cantner, M. Guerzoni and A. Martinelli "Innovation and market dynamics: A two-mode network approach to user-producer relation", LEM (Laboratory of Economics and Management) Working Paper, Scuola Superiore Sant'Anna 2012/09. Available at <http://www.lem.sssup.it/WPLem/files/2012-09.pdf>

Ongoing Research

"Measuring Patent Value: a Critical Reappraisal of the Most Popular Indicators", with G. Capponi (Scuola Sant'Anna) and A. Nuvolari (Scuola Sant'Anna)

"When author becomes inventors: an empirical analysis on patent-paper-pairs in medical research", with E. Romito (Scuola Sant'Anna)

"FDI and market entry: an empirical analysis using trademarks", with E. Giuliani (University of Pisa) and C. Castaldi (Eindhoven University of Technology)

"The double effect of Medicine Patent Pool on Generic Competition in the market for HIV drugs", with E. Romito and A. Mina (Scuola Sant'Anna)

Book chapter on "IP and network analysis" (with R. Bekkers) in *Handbook on Intellectual Property Research* edited by I. Calboli (Texas A&M University School of Law) and L. Montagnani (Università Bocconi)

Book chapter on "Technological Trajectories" in *Handbook of Research Methods and Applications in Industrial Dynamics and Evolutionary Economics* edited by U. Cantner, M. Guerzoni, and S. Vannuccini

Qualification

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Jan. 2014 MIUR Abilitazione Scientifica Nazionale professore II Fascia - Settore Concorsuale 13/A4 **Economia Applicata** obtained on December, 18th 2013 and valid until December, 18th 2019

Jan. 2014 MIUR Abilitazione Scientifica Nazionale professore II Fascia - Settore Concorsuale 13/A2 **Politica Economica** obtained on December, 18th 2013 and valid until December, 18th 2019

Feb. 2013 **Qualification de Maître de conférences** French national habilitation as tenured assistant professor (4 years validity)

Teaching experience

Academic year 2018-2019:

- **“The Law and Economics of Technological Innovation: Robotics and AI”** Phd Course within the activities of the Jean Monnet Centre of Excellence on the Regulation of Robotics and AI (EURA) (4 hours)
- Invited lecture on **“Patent data and internationalization of innovative activities”** in the course of Economic Development hold by Prof. Roberta Rabellotti at Pavia University.

Academic year 2017-2018:

- **“Innovation and IPRs”** Phd course within the Sant’Anna-IUSS Joint PhD in Economics (10 hours)
- Invited lecture on **“Patent data and internationalization of innovative activities”** in the course of Economic Development hold by Prof. Roberta Rabellotti at Pavia University.

Academic year 2016-2017:

- **“Programming in Stata”** course held for the Dipartimento di Scienze Politiche, Università di Pisa (10 hours)
- Invited lecture on **“Patent data and internationalization of innovative activities?”** in the course of Economic Development hold by Prof. Roberta Rabellotti at Pavia University.

Academic year 2015-2016:

- **“Introduzione a STATA”** SSD: SECS Po2, 1 CFU, at Scuola Superiore Sant’Anna. Undergraduate course.

Academic year 2014-2015:

- **“Economics of Innovation”** SSD: SECS Po2, 6 CFU, at Scuola Superiore Sant’Anna. Course for the joint master program with University of Trento on Innovation Management.

Academic year 2013-2014:

- **“IPR and Technological Standards”** SSD: SECS Po2, 1 CFU, at Scuola Superiore Sant’Anna. Undergraduate course.
- Collaboration for the course (giving some applied lectures) **“Economics of Patents”** SSD: SECS Po2, 6 CFU taught by Prof. Alessandro Nuvolari, at Scuola Superiore Sant’Anna. Undergraduate course.

Academic year 2007-2008:

- Teaching assistant for the course **“Economics of Innovation: use of network analysis for patent and citation data”**, 6 CFU taught by Prof. Alessandro Nuvolari at Eindhoven University of Technology. Undergraduate course.
- Teaching assistant for the course **“Technology and Growth”**, 6 CFU taught by Prof. Bart Verspagen, at Eindhoven University of Technology. Master course. Evaluations are available.

Certificate “Teaching in Higher Education” awarded by Eindhoven University of Technology

Student supervision

Supervision of PhD students’ thesis:

- Giovanna Capponi (co-supervision together with Prof. Nuvolari), now post-doc at Utrecht University
- Elena Romito (first supervisor), expected to finish in September 2019

Supervision of Master students:

- Veronica Gronchi (co-supervision together with Prof. Elisa Giuliani for the Corso di Laurea Magistrale in Marketing e Ricerche di Mercato)
- Andrea Casavecchia (for the Corso di Laurea Magistrale in Economics)
- Francesco Sansoni (for the join master program with University of Trento on Innovation Management I)

Supervision of “diploma di licenza” and “tesine annuali” allievi ordinari:

- Leonardo Russo Cardona, Elena Del Pup (Classe di Scienze sperimentali), Giovanni Cattani, Matteo Tranchero, Marta Talevi

Funds and Projects

- Member of the Sant’Anna unit of the H2020 Project ReCreating Europe (grant agreement in preparation) lead by Prof. Caterina Sganga (expected starting date December, 2019).
- Subcontractor for project awarded by the Joint Research Council (JRC) of the European Commission has awarded to Dialogic innovatie & interactie vof (Ref.: JRC/SVQ/2018/B.6/0024/OC)
- Member of the Sant’Anna unit of the PRIN2017 (Protocollo 201799ZJSN) project granted in April 2019 and lead by Prof. Marco Vivarelli (Catholic University of Milan).
- Member of the Sant’Anna unit of the H2020 Project GROWINPRO (grant agreement No. 822781) started in January lead by Prof. Andrea Roventini.
- Member of the SantAnna unit of the H2020 Project ISIGROWTH (grant agreement No. 649186) in the period 2015-2017 and lead by Prof. Giovanni Dosi
- Member of the team that has been awarded the European Commission DG Enterprise “Study on industries dependent on standards and patent challenges and possible policy reactions” (January, 2013).
- 15,000 Euros for organizing (together with Alessandro Nuvolari and Önder Nomaler) an international workshop about “The Structure and Dynamics of Knowledge Networks” within the DIME Network of Excellence (all the details are available at: <http://www.dime-eu.org/knowledge-networks>).

- 95,000 Euros from DIME Network of Excellence (WP 2 RAL2) for a Project “User-Producer Networks, Technological Trajectories, and the Dynamics of Industries”. This project is a partnership with KITEs, Bocconi University, in particular. The research performed at the Friedrich Schiller Universität is about the telecommunication switching industry and heavily relies on the data collected during my PhD project.

Partecipazione e presentazione a conferenze e seminari

6th Copenhagen Conference on “Emerging Multinationals? Outward Investment from Emerging Economies”, Copenhagen (October 11-12, 2018); EPIP 2018 Conference, Berlin (September 5-7, 2018); DRUID18, Copenhagen (June 11-13, 2018); GEOINNO2018, Barcelona (January 31-February 2, 2018); EPIP 2017, Bordeaux, (September 4-6, 2018); DRUID17, New York (June 13-15, 2017); 10th European Meeting on Applied Evolutionary Economics (EMAE), Strasbourg (May 31- June 3, 2017); 16th International Schumpeter Society, Montreal (July 6-8, 2014); IP Statistics for Decision Makers, Wien, Austria (November 3-4, 2015) 5th Reading-UNCTAD International Business Conference, University of Reading, United Kingdom, (June 13-14, 2015); 7th EMAEE Conference, Maastricht University, Maastricht (June 1-3, 2015); 15th International Schumpeter Society, Jena (July 27-30, 2014); Conference on Micro Evidence on Innovation in Developing Economies, Santiago del Chile (November 7-8, 2013); 6th Annual Conference for the Academy of Innovation and Entrepreneurship, Oxford (August 29-30, 2013); 35th DRUID Conference, Barcellona (June 17-19, 2013); 6th EMAEE Conference, Sophia Antipolis, Nice (June 10-12, 2013); 4th International Workshop on Evolution of Technology and Standards, Hitotsubashi University, Tokyo (April 12-13, 2012); NBER Patents, Standards and Innovation Conference; Tucson (January 20-21, 2012), NBER Patents, Standards and Innovation Pre-Conference, Boston (7 May 2011); DIME Final Conference, Maastricht (April 6-8, 2011); 7th EMAEE Conference, Scuola Superiore Sant’Anna, Pisa (14-16 February 2011); 13th International Schumpeter Society, Aalborg (21-24 June 2010); DIME Workshop: Measuring, Mapping and Modelling Technical Change, Pisa (6-7 May 2010); DIME Conference: Organizing for Networked Innovation, Politecnico di Milano, Milan (15-16 April 2010); DRUID Summer Conference, CBS, Copenhagen (17-19 June 2009); 12th International Schumpeter Society, Rio de Janeiro, (2-5 July 2008); 25th DRUID Summer Conference, CBS, Copenhagen (17-21 June 2008); 15th CCC Conference, Carnegie Mellon University, Pittsburgh (11-13 April 2008); DIME Grand Conference, Strasbourg (7-9 April 2008); CESPRI Seminar, Bocconi University (26th March 2008)

Refereeing activity

Management Science, Review of Industrial Organization, Research Policy, Industrial and Corporate Change, Industry and Innovation, Journal of Evolutionary Economics, Technological Forecasting and Social Change, R&D Management, Journal of Technology Transfer, Technology Analysis & Strategic Management, Journal of Industrial and Business Economics/Economia e Politica Industriale, Scientometrics.

Administration and academic services

- Member appointed by the Economics Institute to the general assembly of the “Centro di Competenza ARTES 4.0”
- Member of the admission committee for undergraduate students (year 2017)
- Member of the committee for the “colloqui di verifica” degli allievi del I e II anno dell’Area di Scienze Economiche e Manageriali academic year 2018-2019.
- Member of the electoral commission
- Elected member of the academic Senate.

– Nov. 2013-Nov. 2014: Elected member of the Ethical Committee of Scuola Superiore Sant'Anna.

Languages and Computer skills

Italian (native speaker), English (fluent), Spanish (fluent), French (basic).

Scientific software: Stata, SPSS, Matlab, Ucinet, Pajek, R, MYSQL.

Windows, MAC OS X, Latex.

Autorizzo il trattamento dei miei dati personali ai sensi del Dlgs 196 del 30 giugno 2003

Pisa, 3 August 2019