

# CURRICULUM VITAE

## Stefano Bianchini, PhD

Brescia (Italy), October 2, 1985

Nationality: Italian

Status: Married, 2 children (Lorenzo and Arianna)

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## CURRENT APPOINTMENT

Associate Professor (HDR), BETA UMR 7522, Université de Strasbourg (2017)

## RESEARCH INTEREST

Economics of science and innovation; Science of science; AI/ML

## EDUCATION

PhD in Quantitative Economics, Scuola Superiore Sant'Anna (Pise) 2015 cotutelle with Université de Strasbourg. Dissertation: «Three essays on firm growth, innovation, and persistent performance», supervisors P. Llerena (Université de Strasbourg) and G. Bottazzi (Scuola Superiore Sant'Anna).

MA in Industrial Engineering, University of Brescia, 2011. Dissertation « Quantitative methods for the assessment of teaching quality of academic instructors», supervisor F. Lissoni (Université de Bordeaux).

## PUBLICATIONS IN PEER-REVIEWED JOURNALS (from most recent)

Jurowetzki, R., Hain, D. S., Wirtz, K., & Bianchini, S. (2025). The private sector is hoarding AI researchers: What implications for science? *AI & Society*.  
<https://doi.org/10.1007/s00146-024-02171-z>

Abbonato, D., Bianchini, S., Gargiulo, F., & Venturini, T. (2024). Interdisciplinary research in artificial intelligence: Lessons from COVID-19. *Quantitative Science Studies*, (4), 922–935  
[https://doi.org/10.1162/qss\\_a\\_00329](https://doi.org/10.1162/qss_a_00329)

Bianchini, S., Damioli, G. & Ghisetti, C. (2024). The emergence of a 'twin' transition scientific knowledge base in European regions. *Regional Studies*, 1-17.  
<https://doi.org/10.1080/00343404.2024.2355998>

Bianchini, S., Damioli, G. & Ghisetti, C. (2023). The environmental effects of the 'twin' green and digital transition in European regions. *Environmental and Resource Economics* 84, 877–918.  
<https://doi.org/10.1007/s10640-022-00741-7>

Bianchini, S., Moritz M., & Pelletier, P. (2022). Artificial intelligence in science: An emerging general method of invention. *Research Policy*, 51(10), 104604.  
<https://www.sciencedirect.com/science/article/pii/S0048733322001275>

Bianchini, S., Llerena, P., Ozel, E. & Ocalan-Ozel, S. (2022). Gender diversity of research consortia contributes to funding decisions in a multi-stage grant peer-review process. *Humanities and Social Sciences Communications*, 9,195.

<https://www.nature.com/articles/s41599-022-01204-6>

Bianchini S., Llerena, P., Patsali, S. (2019). Demand-pull innovation in science: Empirical evidence from a research university's suppliers. *Research Policy*, 48, 100005. [CNRS Rank 1]

<https://www.sciencedirect.com/science/article/pii/S2590145119300040>

Bianchini, S., Pellegrino, G. (2019). Innovation persistence and employment dynamics. *Research Policy*, 48 (5), 1171-1186. [CNRS Rank 1]

<https://www.sciencedirect.com/science/article/abs/pii/S0048733319300071>

Bianchini, S., Llerena, P, & Martino, R. (2019). The impact of R&D subsidies under different institutional frameworks. *Structural Change and Economics Dynamics*, 50, 65-78. [CNRS Rank 3]

<https://www.sciencedirect.com/science/article/abs/pii/S0954349X18302066>

Bianchini, S., Pellegrino, G., & Tamagni, F. (2018). Innovation complementarities and firm growth. *Industrial and Corporate Change*, 27(4), 657-676. [CNRS Rank 1]

<https://academic.oup.com/icc/article-abstract/27/4/657/4950529?redirectedFrom=fulltext>

Bianchini, S., Krafft, J., Quatraro, F., & Ravix, J. (2017). Corporate governance and innovation: Does firm age matter? *Industrial and Corporate Change*, 27(2), 349-370. [CNRS Rank 1]

<https://academic.oup.com/icc/article-abstract/27/2/349/4157470?redirectedFrom=fulltext>

Bianchini, S., Bottazzi, G., & Tamagni, F. (2017). What does (not) characterize persistent corporate high growth? *Small Business Economics*, 48(3), 633-656. [CNRS Rank 2]

<https://link.springer.com/article/10.1007/s11187-016-9790-1>

Bianchini, S., Lissoni, F., Pezzoni, M., & Zirulia, L. (2016). The economics of research, consulting, and teaching quality: Theory and evidence from a technical university. *Economics of Innovation & New Technology*, 25(7), 668-691. [CNRS Rank 2]

<https://www.tandfonline.com/doi/abs/10.1080/10438599.2015.1114340>

Bianchini, S., Llerena, P. (2016). Science policy as a prerequisite of industrial policy. *Economia e Politica Industriale*, 43(3), 273-280.

<https://link.springer.com/article/10.1007/s40812-016-0040-y>

Bianchini, S. (2014). Feedback effects of teaching quality assessment. *Assessment & Evaluation in Higher Education*, 39(3), 380-394.

<https://www.tandfonline.com/doi/abs/10.1080/02602938.2013.842957?scroll=top&needAccess=true&journalCode=caeh20>

Bianchini, S., Lissoni, F., & Pezzoni, M. (2013). Instructor characteristics and students' evaluation of teaching effectiveness: Evidence from an Italian engineering school. *European Journal of Engineering Education*, 38(1), 38-57.

<https://www.tandfonline.com/doi/abs/10.1080/03043797.2012.742868>

## **POLICY PAPERS and REPORTS** (from most recent)

European Commission, Directorate-General for Research and Innovation, Arranz, D., Bianchini, S., Di Girolamo, V. et al., Trends in the use of AI in science – A bibliometric analysis, Publications Office of the European Union, 2023.

<https://data.europa.eu/doi/10.2777/418191>

Bianchini, S., Bottero, P., Colagrossi, M., Damioli, G., Ghisetti, C. and Michoud, K., Mapping the Scientific Base for SDGs and Digital Technologies, Publications Office of the European Union, Luxembourg, 2023.

<https://publications.jrc.ec.europa.eu/repository/handle/JRC133613>

Bianchini, S., Bottero, P., Colagrossi, M., Damioli, G., Ghisetti, C. and Michoud, K., Sustainable Development Goals and Digital Technologies: Mapping Scientific Research, Publications Office of the European Union, Luxembourg, 2023

<https://policycommons.net/artifacts/4374394/sustainable-development-goals-and-digital-technologies/5170873/>

Bianchini, S., Millot, V. and Sorbe, S. (2020). Artificial intelligence and firm-level productivity. OECD Structural Policy Analysis Division, Economics Department – Report available upon request.

## **ONGOING RESEARCH** (submitted papers)

Muller, M., Bianchini, S., & Pelletier. Drivers and barriers of AI adoption and use in scientific research. <https://arxiv.org/abs/2312.09843> [*R&R Technological Forecasting and Social Change*]

Hambye-Verbrugghen, J., Bianchini, S., Brockway, P., Aramendia, E., Heun, M. K., & Marshall, Z.. From twin transition to twice the burden: Digitalisation, energy demand, and economic growth. [*R&R Ecological Economics*]

<https://www.beta-economics.fr/working-papers/2024-61/>

Muller, M., Bianchini, S., Pelletier, P. & Wirtz, K. On the global health science response to COVID-19. <https://arxiv.org/abs/2102.00298>

## **WORKSHOPS AND CONFERENCES** (last five years)

2024 – “The Organisation, Economics and Policy of Scientific Research”, Turin, IT”; Gender Summit GS2024, Online; IA et l’impact environnemental dans l’industrie, Schmidt Groupe, Sélestat, FR.

2023 – « Les rendez-vous de la MITI : parlons interdisciplinarité ! », CNRS, FR ; “The Organisation, Economics and Policy of Scientific Research”, Munich, DE; The Strategic Council for Research Excellence, Integrity, and Trust: Expanding the Use of AI across Science, National Academy of Science, US.

2022 – “Artificial Intelligence in Science” – AI Matrix Workshop, Bruxelles, BE ; R&D Management, Trento, IT ; ISS Conference [Keynote speech], Changsha, CN; GEOINNO2022, Milan, IT ; “The Organisation, Economics and Policy of Scientific Research”, Leuven, BE.

2021 – « Les nouveaux temps modernes : l’impact de l’IA sur le marché du travail », Bizz&Buzz festival, FR ; « Intelligence artificielle et environnement : une loi de plus, Monsieur Asimov ! », Centre de Culture Numérique, Strasbourg, FR; Keynote ITI HealthTech kickoff, Strasbourg, FR; CNRS Défi Enjeux Scientifiques et Sociaux de l’IA, Paris, FR.

2020 – Online EU Commission Workshop “Timely topics in innovation: AI, digitalization and inter-regional investments”.

## TEACHING ACTIVITY

Mathématique II (24h – BA Unistra)

Applied econometrics (15h – MA Unistra)

Impact evaluation (15h – MA)

Machine learning (40h – MA Unistra)

Deep learning (40h – MA Unistra)

*In the past:* Industrial economics (72h – MA UniBs); Economics of innovation (36h – MA UniBs); Economics of science (8h – PhD Unistra / Sant'Anna); Data science for impact assessment (8h – PhD Unistra CEIPI)

Founder and coordinator of the MA Programme « Data Science pour l'Economie et l'Entreprise du Futur » (Data Science for Economics and Business), FSEG Université de Strasbourg. Details here:

<https://ecogestion.unistra.fr/formations/masters/analyse-et-politique-economique/parcours-data-science-pour-leconomie-et-lentreprise-PR1208-17653>

## PUBLICLY FUNDED PROJECTS

*As Principal Investigator:*

SEED (Sustainable Economies in the Era of Digital transformation), 2022-2025. *Objectives:* The project aims to understand the interlinkages between digitalisation and sustainable development, and the contextual factors that can maximise the benefits and minimise the risks of the digital transformation. *Sponsor:* Agence Nationale de la Recherche (ANR). *Budget:* 390 000 €

DIInAMICS (Demand-driven Innovation Assessment in Medical and unIversity eCo-Systems), 2019-2021. *Objectives:* Evaluating the role of public procurement in promoting the development of AI and computer-assisted technologies in the domain of health. *Sponsor:* Agence Nationale de la Recherche (ANR). *Budget:* 165 000 €

ARISE (ARTificial Intelligence in the Science systEm), 2020-2022. *Objectives:* Analysing socio-economic transformations triggered by Artificial Intelligence (AI) through an in-depth assessment of the diffusion and the impacts of AI in the science system. *Sponsor:* CNRS. *Budget:* 30 000 € + 3-year PhD scholarship.

Robotisation, environmental impacts, and the dynamics of wages and employment, 2019-2020. *Objectives:* Analysing the interrelationship between innovations (AI and robots), wages and employment at the firm- and industry-level. *Sponsor:* PUD-PROGEDO. *Budget:* 10 000 €

*As partner:*

GIGA (Gender bias In Grant Allocation), 2019-2021. Coordinated by P. Llerena (Université de Strasbourg). *Sponsor:* Agence Nationale de la Recherche (ANR).

UTTO (University Technology Transfer and its Optimization), 2016-2018. Coordinated by N. Carayol (Université de Bordeaux) and P. Llerena (Université de Strasbourg). *Sponsor:* Agence Nationale de la Recherche (ANR).

ASTRAL (Assessment of Science and Technology Research in Alsace), 2014-2015. Coordinated by J. Lane (NYU) and P. Llerena (Université de Strasbourg). *Sponsor:* Gutenberg Chair, Region Alsace.

STARMETRICS (Science and Technology for America's Reinvestment: Measuring the EffecTs of Research on Innovation, Competitiveness and Science), 2014-2015. Coordinated by J. Lane (NYU). *Sponsors:* NIH, NSF, the U.S. Department of Agriculture, and the Environmental Protection Agency.

## REFeree ACTIVITY

Reviewer for: Economic Geography; Economics of Innovation and New Technology; Energy Strategy Reviews; Eurasian Business Review; Industrial and Corporate Change; Industry and Innovation; Journal of Economic Behavior and Organization; Journal of Small Business and Enterprise Development; Journal of Evolutionary Economics; PLOS ONE; Quantitative Science Studies; Research Policy; R&D Management; Science and Public Policy; Scientometrics; Small Business Economics; Technovation.

External reviewer (evaluator), Agence Nationale de la Recherche (ANR), France [since 2019]

## SUPERVISIONS

### *PhDs:*

Pierre Pelletier (2019 – 2023): “The diffusion and the impacts of AI in the science system”

Kevin Wirtz (2019 – 2023): “Adoption of digital technologies and productivity dynamics”

Diletta Abbonato (2020 – 2024): “The role of artificial intelligence for societal challenges”

Jérôme Hambye (2021 – ongoing): “Modelling dynamic interactions within the environment-population-affluence-technology nexus”

Mathilde Clerc (2022 – ongoing): “The impact of digital technologies on the environment”

Kévin Michoud (2023 – ongoing): “Mapping the scientific base for SDGs and digital technologies”

### *Postdoc:*

Andrea Borsato (2020 – 2022): “Modelling employment effects of automation technologies” [co-supervised with A. Lorentz]

### *PhD committee:*

Francesca Isola (University of Siena, May 2024): “Three essays on intrahousehold inequality and separation outcomes: A European perspective”

Olimpija Hristova Zaevska (Copenhagen Business School, June 2024): “Industry 4.0 ecosystems – Design, value creation, and impact across European regions”

Sylvain Fontaine (Sorbonne University, December 2024): “The diffusion of Artificial Intelligence into neuroscience: A multiscale approach to the genericity of a research-technology”

## OTHER & RESPONSABILITIES

Director of the Chair “Data Science for Economics and Business”, Fondation Université de Strasbourg (active budget 205 000 € - 2019-2021, supported by *Crédit Agricole* and *Mazars*) (active budget 120 000 € - 2022-2024, supported by *Crédit Agricole*)

Member of the Editorial Review Board – Small Business Economics

<https://www.springer.com/journal/11187/editors>

Editorial Board (guest editor with J.M. Deltorn, D.Guellec, J. Penin), special issue “Machine learning tools for patent and scientific publications data” in *Revue d’Economie Industrielle* [ongoing]

<https://journals.openedition.org/rei/9759?lang=fr>

Editorial Board (guest editor with A. Coad and R. Brown), special issue “High growth firms” in *Cuaderno de Economia* (2018)

<https://revistas.unal.edu.co/index.php/ceconomia/issue/view/4937>

Member of the Board of Management for “The International Schumpeter Society” (2020-2022)  
<https://www.issevec.uni-jena.de/>

Winner of the “Guy Ourisson Prize 2020” (Gutenberg Circle). The prize is awarded each year to up to five most promising researchers under 40 in the Alsace region in any field.  
<http://www.cercle-gutenberg.fr/prix-guy-ourisson-et-autres-prix-jeunes-chercheurs/presentation/>

Expert groups / consulting activities for:

- European Commission: DG-JRC-Modelling, Indicators and Impact Evaluation
- European Commission: DG-RTD-Research and Innovation
- OECD: Structural Policy Analysis Division, Economics Department
- Private sector [data analytics, AI/ML]

Rapporteur of the Mutual Learning Exercise on “National Policies for AI in Science” (2024-2025)  
<https://projects.research-and-innovation.ec.europa.eu/en/statistics/policy-support-facility/psf-challenge/mutual-learning-exercise-national-policies-ai-science>

Other stuff here: <https://github.com/merlino-sb>

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