Diletta Abbonato

Curriculum Vitae

Personal Information

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Personal pages:

- Università degli studi di Milano-Bicocca: `https://www.unimib.it/diletta-abbonato`

- LinkedIN: `https://www.linkedin.com/in/dilettaabbonato/`

- ResearchGate: `https://www.researchgate.net/profile/Diletta-Abbonato-2`

- ORCID: 0000-0002-6275-8787

Current Position

2024–Present **Postdoctoral Researcher**, *Dipartimento di Economia, Metodi Quantitativi e Strategie di Impresa (DEMS), Università degli studi di Milano-Bicocca*, Milan, Italy
- **Project**: "The development and diffusion of data-driven innovation: effects at firm and sector level"
- **Supervisor**: Dr. Marco Guerzoni

Research Experience

06-09/2024 **Research Fellowship**, *Dipartimento di Economia, Metodi Quantitativi e Strategie di Impresa (DEMS), Università degli studi di Milano-Bicocca*, Milan, Italy
- **Project**: "Big Data Platform for the tertiary sector"
- **Supervisors**: Dr. Francesco Trentini, Dr. Carlo Bottai

04–07/2023 **Visiting Researcher**, *Universität Bremen*, Bremen, Germany
- Supervisor: Dr. Jessica Birkholz

03–07/2020 **Intern**, *Bureau d'Économie Théorique et Appliquée (BETA) UMR 7522, Université de Strasbourg*, Strasbourg, France
- **Project**: Collection, integration, and analysis of patents with implementation of social network analysis algorithms using R
- **Supervisors**: Prof. Patrick Llerena, Dr. Antoine Port

05–08/2020 **Research Fellowship**, *Dipartimento di ingegneria Informatica, Automatica e Gestionale (DIAG), Università di Roma - La Sapienza*, Rome, Italy
- **Project**: Support in preparing a data quality package for educational and research data using R
- **Supervisor**: Prof. Cinzia Daraio

Research Areas

Innovation and Macroeconomic Dynamics: Growth and inequalities; technical changes; productivity analysis; impact of artificial intelligence on growth and inequalities.

Industrial Dynamics: Innovation and technological diffusion; artificial intelligence; interdisciplinarity in sciences; economic and social impact of digital technologies.

Econometrics: Panel data econometrics; time series econometrics; applied economics; unstructured data analysis and web scraping; econometric models for studying technological innovation.

Teaching Experience

09/2024-01/2025	**Advanced Programming and Data Visualization** for second-year Master's in Data Science for Economics and Business, Faculty of Economic and Management Sciences, *Université de Strasbourg*, Strasbourg, France, *12h*
11/07/2024	**Transformers and data-driven innovation: an introduction** for second-year Master's in Data Science and Statistics, *Università degli studi di Milano-Bicocca*, Milan, Italy, *2h*
2022/2023	**Unsupervised Learning** for second-year Master's in Data Science for Economics and Business, Faculty of Economic and Management Sciences, *Université de Strasbourg*, Strasbourg, France, *24h*
10/2022	**Transformer Neural Networks** for second-year Master's in Data Science for Economics and Business, Faculty of Economic and Management Sciences, *Université de Strasbourg*, Strasbourg, France, *12h*
04/2022	**Machine Learning Laboratory** for second-year Master's in Data Science for Economics and Business, Faculty of Economic and Management Sciences, *Université de Strasbourg*, Strasbourg, France, *12h*

Education

2020–2024 **Ph.D. in Economics**, *Bureau d'Économie Théorique et Appliquée (BETA) UMR 7522, Université de Strasbourg*, Strasbourg, France
- **Thesis**: The role of Artificial Intelligence for societal challenges
- **Project**: Sustainable Economies in the Era of Digital transformation (SEED, ANR-22-CE26-0013)
- **Supervisors**: Prof. Patrick Llerena, Dr. Stefano Bianchini
- **Jury Members**: Prof. Cinzia Daraio, Prof. Björn Jindra, Dr. Lili Wang, Dr. André Lorentz

2018–2020 **M.Sc. in Data Science**, *Facoltà di Ingegneria dell'Informazione, Informatica e Statistica (i3s), Università di Roma - La Sapienza*, Rome, Italy
- **Thesis**: Public-Private relationships through patent analysis
- **Supervisors**: Prof. Cinzia Daraio, Prof. Patrick Llerena, Dr. Antoine Port

2015–2018 **B.Sc. in Statistics for Management**, *Facoltà di Ingegneria dell'Informazione, Informatica e Statistica (i3s), Università di Roma - La Sapienza*, Rome, Italy
- **Thesis**: Twitter analysis, model and application
- **Supervisor**: Prof. Paolo Dell'Olmo

Professional Experience

09/2024–Present **Individual Consultant**, *Head of Ethics of AI Unit, Assistant Director-General for Social and Human Sciences Sector (ADG/SHS), UNESCO*
- **Project**: Report on artificial intelligence market trends.
- **Supervisor**: Dr. Roman Jurowetzki

01–09/2020 **Librarian**, Department of Computer Science, *Università di Roma - La Sapienza*, Rome, Italy

01–02/2019 **Data Analyst**, *Sant'Eugenio Hospital*, Rome, Italy
- ○ **Project**: Quantitative analysis of a survey conducted among nursing students to evaluate their perceptions and the role of their clinical mentors.

Publications

Published Papers in Peer-Reviewed Journals

[PR1] Abbonato, D., Bianchini, S., Gargiulo, F., & Venturini, T. (2024). "Interdisciplinary research in artificial intelligence: Lessons from COVID-19", *Quantitative Science Studies*

Papers Submitted to Peer-Reviewed Journals

[R1] Abbonato, D. (2024) "Public sentiments on the fourth industrial revolution: An unsolicited public opinion poll from Twitter" pre-print, *Technological Forecasting and Social Change*

[R2] Abbonato, D., Bianchini, S., Llerena, P. (2024). "Partnerships is all you need: The development of transformer technology and its impact on science." *Scientometrics.*

Work in Progress

[W1] Abbonato, D., Birkholz, J., Kerner P., "The evolution of narratives in green hydrogen research"

[W2] Abbonato, D., Borsato, A., "Trends in mission-oriented innovation policies: a bibliometric survey"

[W3] Abbonato, D., Bottai, C., Trentini, F., Velyka, A., "Validation and enrichment of RUNTS with web data"

[W4] Abbonato, D., Guerzoni, M., "Disentangling the Impact of Methodological and Topic Interdisciplinarity on Scientific Performance in Economics"

Conferences

10/2024 Women for Ethical Artificial Intelligence Conference (W4EAI), *UNESCO Headquarters*, Paris, France

06/2024 DRUID, *SKEMA Business School and Université Côte d'Azur*, Nice, France

09/2023 EAEPE: European Association for Evolutionary Political Economy, *University of Leeds*, Leeds, United Kingdom

05/2023 Atlanta Conference on Science and Innovation Policy, *Georgia Institute of Technology*, Georgia, United States

01/2023 DRUID Academy 2023, Economics and Management of Innovation, Technology and Organization, *Aalborg University*, Aalborg, Denmark

Workshops

12/2023 WICK#11, Doctoral Workshop in Economics of Innovation, Complexity and Knowledge, *Collegio Carlo Alberto*, Turin, Italy

06/2023 Economics of Innovation, AI applications and Data Science, Digital Innovation and AI, Doctoral Workshop and Research Network, *UNU-MERIT*, Maastricht University, Maastricht, Netherlands

03/2023 ITI HealthTech Workshop BETA-ICube, *Université de Strasbourg*, Strasbourg, France

06/2022	Economics of Innovation, AI applications and Data Science, Doctoral Workshop, *Copenhagen Business School*, Department of International Economics, Government and Business, Copenhagen, Denmark
06/2022	5th BETA Workshop in Economics of Science and Innovation, *Université de Strasbourg*, Strasbourg, France
11/2020	BETA-ICube Doctoral Workshop, *Université de Strasbourg*, Strasbourg, France

Summer Schools

07/2023	Participation in KID2023: Knowledge Dynamics, Industry Evolution, Economic Development, *Université Côte d'Azur*, Nice, France
11/2022	Participation in the 13th edition of "Autumn School in Management of Creativity," *Université de Strasbourg*, Strasbourg, France
05/2021	Participation in the 16th Advanced Course on "Innovation, Growth and International Production: Models and Data Analysis," *Università di Roma - La Sapienza*, Rome, Italy

Student Supervision

04–07/2024   *Università degli Studi di Milano-Bicocca*, Milan, Italy

- **Ludovica Maria Greco**: "Redefining search behaviour: TikTok as the GenZ's new favourite search engine" (M.Sc in Marketing)

09–12/2021   *Università degli Studi di Brescia*, Brescia, Italy

- **Daniele Caci**: "Exploring opinion on AI using Twitter. A comparison between Italy and France." (M.Sc in Management Engineering)
- **Chiara Leggerini**: "Exploring opinion on AI using Twitter. A comparison between Italy and France." (M.Sc in Management Engineering)

Other Activities

02/2020	Hash Code - Programming Competition organized by Google
06/2019	SAS Training Camp, Introduction to SAS Vija software, *Università di Roma - La Sapienza*, Rome, Italy
	Review Activity - Referee for: *Economics of Innovation and New Technology*, *PeerJ*

Computer Skills

- R, Python, SAS, Java, C++, MATLAB, MySQL, NoSQL, Gephi, Docker, SPSS, LaTeX
- **Frameworks:** Torch, Tensorflow

Languages

Italian (native), English (advanced), French (advanced), Spanish (intermediate)