

Vittoria Vineis
Researcher & Consultant in AI, Data & Social Impact
PhD Candidate in Data Science · Sapienza University of Rome
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PROFILE

Researcher and consultant working at the intersection of **artificial intelligence, data science, evaluation, and social impact**. My background combines development economics and social research with technical training in data science and AI. My research focuses on **responsible, participatory, and sustainable AI**, while my professional work includes evaluation, advisory activities, data analysis, and digital innovation for organizations working in the public and social sectors.

RESEARCH AND PROFESSIONAL INTERESTS

Responsible and Trustworthy AI · Participatory & Human-Centered AI · AI Governance & Digital Accountability · Social Impact Assessment · Monitoring, Evaluation & Learning (MEL) · Mixed-Methods Research · Development Economics

RESEARCH AND PROFESSIONAL EXPERIENCE

- 04/2026–10/2026 **Drexel University, INERTIA Laboratory**
Visiting Ph.D. Researcher
- 06/2025–12/2025 **Agenzia per la Rappresentanza Negoziale delle Pubbliche Amministrazioni**
AI and Digitalization Intern
- 02/2020–11/2023 **ARCO – Action Research for CO-development**
Yunus Social Business Centre, University of Florence
Social Economy Researcher
- 09/2019–12/2019 **Yunus Social Business Centre, Bethlehem University**
Research and Business Support Intern
- 08/2018–08/2019 **Fairfield University – Study Abroad Program**
Program Assistant
- 11/2017–07/2018 **Volontariato Internazionale per lo Sviluppo (NGO)**
Intern, International Project Office

EVALUATION AND ADVISORY EXPERIENCE

- 03/2026–09/2026 **Fondo per la Repubblica Digitale**
External Evaluator on digital projects for women empowerment
- 09/2025–01/2026 **ARCO – Action Research for CO-development**
Research Collaborator

EDUCATION

- 11/2023–present **Ph.D., Data Science**
Università La Sapienza di Roma – Rome, Italy
Advisor: Prof. Gabriele Tolomei, Department of Computer Science
Research Group: HERCOLE Lab ()
- 2022–2023 **2nd Level Master, Data Science and Statistical Learning**
Scuola IMT Alti Studi – Lucca; Università degli Studi di Firenze – Florence, Italy
Advisor: Prof. Fabrizia Mealli
- 2018–2021 **M.Sc., Economics and Development (Development Economics)**
Università degli Studi di Firenze – Florence, Italy
Advisor: Prof. Mario Biggeri; *Co-Advisor:* Enrico Testi, PhD

- 2017–2018 **1st Level Master, International Law and Development Cooperation**
Pontificia Università Lateranense – Rome, Italy
Advisor: Federico Mento, PhD
- 2013–2016 **B.Sc., Development Economics and International Cooperation**
Università degli Studi di Firenze – Florence, Italy

ACADEMIC PUBLICATIONS AND WORKING PAPERS

Data Science

- Vineis, V., Tolomei, G., Ekstrand, M. (2026). What do Users Really, Really Want? Modeling Opportunity Conversion for Capability-Aware Recommendations. *Under review*.
- Vineis, V., Silvestri, M., ..., Tolomei, G. (2026). Explaining AI Agents Through Execution Traces. *Under review*.
- Vineis, V., Silvestri, M., Antonelli, L., Betello, F., & Tolomei, G. (2026). PONTE: Personalized Orchestration for Natural Language Trustworthy Explanations. *4th World Conference on Explainable Artificial Intelligence*.
- Vineis, V., Tolomei, G. (2026). From Engagement to Empowerment: A Capability-Theoretic Rethinking of Recommender Systems. *48th European Conference of Information Retrieval*.
- Vineis, V., Perelli, G., & Tolomei, G. (2025). A Participatory Learning Framework for Multi-Stakeholder Decision-Making. *Multi-Objective Decision-Making Workshop at ECAI 2025*.
- Betello, F., Purificato, A., Vineis, V., Tolomei, G., Silvestri, F. (2025). One Search Fits All: Pareto-Optimal Eco-Friendly Model Selection. *Under review*.
- Silvestri, M., Vineis, V., Gabrielli, E., et al. (2025). A Survey on Explainable AI Narratives based on Large Language Models. *Under review*.

Accountability and Social Impact

- Vineis, V., Testi, E. (2026). Authority Transfer in Agentic AI: A Conceptual Framework for Assessing and Governing Sociotechnical Effects. *Working paper*.
- Nitti, C., Vineis, V., Bellucci, M., Testi, E., Bagnoli, L. (2022). Disclosing social impact to public and private stakeholders: opportunities and limitations of SROI analysis for social enterprises. In: *XXIV Congresso Nazionale AIV*, Pescara, Italy, 21–23 September 2022.

ACADEMIC SERVICE AND REPRESENTATION

- 2026 *Academic Workshop Organizer:* GREEN-AI @ ECML-PKDD 2026, CIKM 2026; LLM4XAI @ CIKM 2026
- 2024–present *Ph.D. Student Representative*, Data Science Doctoral Programme, Sapienza University of Rome
- 2024–present *Member of Gender Equality Plan Committee*, Department of Computer, Control, and Management Engineering (DIAG), Sapienza University of Rome
- 2025 *Volunteer Staff Member*, European Conference on Information Retrieval (ECIR 2025)
- 2024–present *Peer Reviewer*, ACM SIGKDD, ECML-PKDD, CIKM, IJCNN, WWW, SIGIR, XAI

TALKS AND SEMINARS

- *Artificial Intelligence: Learn, Experiment, Integrate*, Fondazione Caript (March 16, 2026)
- *AI and Social Impact Assessment: an (im)possible convergence?*, Social Value Italia (October 16, 2025)
- *Interdisciplinarity as a Critical Posture for AI Research*. Invited seminar at the Master's Course in Artificial Intelligence and Philosophy, Sapienza University of Rome (May 20, 2025)

SUPERVISION

- BSc Thesis – Towards Explainable Agentic Systems, Sapienza University of Rome, 2026.
- MSc Thesis – Model Editing, Sapienza University of Rome, 2025.
- BSc Thesis – Temperature Learning for Optimal Surrogate Functions, Sapienza University of Rome, 2025.

COURSES AND PROFESSIONAL DEVELOPMENT

- *IA quo vadis?* — Interdisciplinary Masterclass, SISSA Medialab, Bertinoro, February 1–6, 2026.
- *ELLIS-ESSIR 2025* — *European Summer School on Information Retrieval*, Wolverhampton, UK, July 7–11, 2025.
- *M2L 2024* — *Mediterranean Machine Learning Summer School*, Milan, Italy, September 9–13, 2024.

TECHNICAL SKILLS

Programming and Statistical Software: Python; R; Stata

Machine Learning and NLP: PyTorch; Hugging Face; scikit-learn; transformers; RAG; AI agents

Databases: SQL; MongoDB

Version Control: Git; GitHub

Writing and Productivity Tools: LaTeX; Microsoft Office Suite; Google Workspace

LANGUAGES

Italian (native), English (C1), Spanish (B1), French (A2)

Last updated: October 2026