
Federico Roscioli

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Contact information

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Personal summary

Applied economist and statistician with a PhD in Economics and Finance (University of Rome Tor Vergata) and international experience delivering research for organisations including the World Bank, FAO, UNEP and the European Commission's Joint Research Centre. My work pairs rigorous quantitative methods — composite indicators, multivariate and latent-variable modelling, impact evaluation and CGE modelling — with hands-on fieldwork in development and environmental economics. Used to leading and collaborating within multidisciplinary, cross-country teams, I bring the critical thinking, organisation and adaptability sharpened by years as a researcher and as a freelance photojournalist.

Working Experience

- 2026 **Trainee at JRC**, European Commission – Joint Research Center Ispra (Varese, Italy). Unit S.3: Science for Modelling, Monitoring and Evaluation. Competence Center on Composite Indicators and Scoreboards (CC-COIN). Drafting composite indicators guidelines. Drafting policy briefs and reports on: methodologies for composite indicators, poverty, beyond GDP measurement, renewable energy, nature credits and mental health in the EU.
- 2025 **Guest Researcher at IDOS**, German Institute of Development and Sustainability, Bonn (Germany). Drafting of The policy is greener on the other side. Evidence from US States. A paper about the determinants of environmental policies in the US States.
- 2024-2025 **Research Fellow at Fondazione Tor Vergata**, Rome (Italy). Using SAM impact analysis and CGE modelling using GTAP 11 data and GAMS programming: estimation of the cost of inaction regarding blue and green water; estimation of the impact of AI on the tourism sector in the G7 countries.
- 2023 **Consultant statistician at World Bank**, Rome (Italy). Construction of an aggregate indicator for the FAO's Food Loss Index and the UNEP's Food Waste Index for the Data Production and Methods Division.
- 2022 **Research assistant at University of Roma Tre with Prof. Salvatore Morelli**, Rome, Italy. Literature review on the methods for estimating household carbon emissions.
- 2022 **Consultant economist at IDOS**, German Institute of Development and Sustainability, Bonn (Germany). Analysis and drafting of “The Impacts of Carbon Taxes and Cash Transfers on Poverty and Inequality Across Years: A Peruvian Case Study.”
- 2021 **Consultant statistician at FAO**, Rome (Italy). Preliminary study on the feasibility of a composite indicator for the FAO's Food Loss Index and the UNEP's Food Waste Index for the FAO Statistical Division (ESS).
- 2021-2022 **Consultant economist at The Alliance of Bioversity International and CIAT**, Rome (Italy). Analysis and drafting of the report on the global value chain of Cocoa with a particular focus on Peru, Indonesia and Ghana.
- 2019-2020 **Consultant economist at The Alliance of Bioversity International and CIAT**, Lima (Peru). Analysis and drafting of “Seeding Resilient Restoration: An Indicator System for the Analysis of Tree Seed Systems”. Modelling the cost/benefits of forest landscape restoration projects in Peru. Study the impact of cadmium in the Peruvian cocoa value chain.
- 2019 **Consultant economist at IDOS**, German Institute of Development and Sustainability, Malawi. Qualitative assessment of the social cohesion component of the TEEP program.
- 2019 **Guest researcher at IDOS**, German Institute of Development and Sustainability, Bonn (Germany). Drafting of the paper “Introducing agroecology in primary schools: an independent impact evaluation in Uruguay.”
- 2018 **Guest researcher at UDELAR**, Universidad De La Republica De Uruguay, Montevideo (Uruguay). Data collection and analysis for an impact assessment on “Programa Huertas en Centros Educativos”.
- 2018 **Consultant economist at Oxfam Italy**, Rome (Italy). Desk research and drafting of the report “Maturi per il cambiamento” on the connection between illegal hiring in agriculture and supermarkets.
- 2013-2018 **Freelance photojournalist** (The Washington Post, Heifer International, Under the Same Sun, Tulime Onlus).

Education

2022 to 2026	PhD in Economics and Finance at University of Rome Tor Vergata (Rome, Italy). Supervisors: Prof. Alessio D’Amato, Prof. Daniele Malerba. Thesis: Three essays on Sustainable Development.
2019 to 2022	MSc in Economics and Development (LM56) at the University of Florence (Florence, Italy)(100/110). Supervisor: Prof. Donato Romano. Thesis: A critical assessment of Multi-Sector Needs Assessment as a tool for food security monitoring. The case of Palestine.
2017 to 2018	MSc in Human Development and Food Security at the University of Roma Tre (Rome, Italy)(Summa cum Laude). Supervisors: Prof. Francesco Burchi, Prof. Daniele Malerba. Thesis: Impact evaluation of Programa Huertas en Centros Educativos, Montevideo (Uruguay).
2013 to 2017	BSc in International Cooperation and Development (L37) at the University La Sapienza (Rome, Italy)(100/110). Supervisor: Prof. Giuliana Vinci. Thesis: Sicurezza alimentare. Caso studio: apicoltura nelle zone rurali del Messico (Heifer International).

Languages

	Oral	Writing	Reading
Italian	Mother tongue		
English	C2	C2	C2
Spanish	C2	C2	C2
French	B2	A2	B2
Portuguese	B1	A2	B2

Technical Skills

- **Statistical & programming:** R (advanced), Python (basic), Stata (basic), Matlab (basic), GAMS (basic), QGIS (basic).
- **Documentation & design:** L^AT_EX(advanced), Microsoft Office Suite (advanced), Adobe Suite (advanced), Final Cut Pro (advanced), WordPress (intermediate).
- **AI-assisted development:** Claude Code (advanced).

Academic publications

1. Roscioli, F., Malerba, D., & Farcomeni, A. (2025). Measuring sustainable development progress in Peru using multivariate latent Markov models. *Sustainable Development*.
2. Carbone, A. S., Roscioli, F., & Mazziotta, M. (2025). Urban household food insecurity and pediatric malnutrition: evidence from the Divina Providencia Hospital in Luanda, Angola. *Frontiers in Public Health*, 13, 1604713.
3. Malerba, D., Roscioli, F., Gaentzsch, A., & Ward, H. (2024). Changing carbon footprints and the consequent impacts of carbon taxes and cash transfers on poverty and inequality across years: A Peruvian case study. *Energy Policy*, 192.
4. Burchi, F., & Roscioli, F. (2022). Can integrated social protection programmes affect social cohesion? Mixed-methods evidence from Malawi. *The European Journal of Development Research*, 1-24.

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5. Atkinson, R.J.; Thomas, E.; Roscioli, F.; Cornelius, J.P.; Zamora-Cristales, R.; Franco Chuaire, M.; Alcázar, C.; Mesén, F.; Lopez, H.; Ipinza, R.; Donoso, P.J.; Gallo, L.; Nieto, V.; Ugarte, J.; Sáenz-Romero, C.; Fremout, T.; Jalonen, R.; Gaisberger, H.; Vinceti, B.; Valette, M.; Bosshard, E.; Ekué, M.; Wiederkehr Guerra, G.; Kettle, C. (2021). Seeding Resilient Restoration: An Indicator System for the Analysis of Tree Seed Systems. *Diversity*, 13, 367.
 6. Roscioli, F., Malerba, D., & Burchi, F. (2020). Introducing agroecology in primary schools: an independent impact evaluation in Uruguay. *Agroecology and Sustainable Food Systems*, 1-34.
 7. Vinci, G., Rapa, M., & Roscioli, F. (2018). Sustainable development in rural areas of Mexico through beekeeping. *International Journal of Science and Engineering Invention*.