

Federico Roscioli

Economist and Statistician | Composite Indicators · Impact Evaluation · Economic Modelling

federico.roscioli@gmail.com | www.federicoroscioli.com

PROFILE

Economist and statistician with experience at the European Commission (Joint Research Centre), the World Bank, FAO, the German Institute of Development and Sustainability (IDOS) and the Alliance of Bioversity International and CIAT. Builds composite indicators, evaluates policies and programmes, and models economy-wide impacts (SAM/CGE); seven peer-reviewed publications. PhD candidate in Economics and Finance (University of Rome Tor Vergata, thesis submitted). Curious and quick to learn, a team player with a leadership attitude; a background in photojournalism brings critical thinking, strong organisation and time management.

CORE SKILLS

Quantitative methods	Composite indicators and scoreboards; impact evaluation (RCTs, mixed methods); multivariate and latent Markov models; SAM and CGE modelling (GTAP, GAMS); distributional analysis of carbon taxes
Data and software	R, Stata, Python, MATLAB, GAMS, QGIS, $\LaTeX$, Microsoft Office; AI-assisted coding (Claude Code)
Communication	Policy briefs and reports; university teaching; photography and video (Adobe Suite, Final Cut Pro); WordPress
Languages	Italian (native), English (C2), Spanish (C2), French (B2), Portuguese (B1)

PROFESSIONAL EXPERIENCE

Trainee | [European Commission – Joint Research Centre, Ispra \(Italy\)](#) Apr–Aug 2026

- Drafted guidelines on building composite indicators for the Competence Centre on Composite Indicators and Scoreboards (CC-COIN).
- Drafted policy briefs and reports on poverty, beyond-GDP measurement, renewable energy, nature credits and mental health in the EU.

Guest Researcher | [IDOS, Bonn \(Germany\)](#) Nov–Dec 2025

- Researched the drivers of environmental policy adoption across US states.

Research Fellow | [Fondazione Tor Vergata, Rome](#) Mar 2024–Jun 2025

- Estimated the economic cost of inaction on blue and green water with SAM impact analysis and CGE modelling (GTAP 11, GAMS).
- Assessed the impact of artificial intelligence on the tourism sector in the G7 countries.

Consultant Statistician | [World Bank, Rome](#) Apr–Sep 2023

- Built an aggregate indicator combining FAO's Food Loss Index and UNEP's Food Waste Index for the Data Production and Methods Division.

Consultant Economist | [Alliance of Bioversity International and CIAT, Lima and Rome](#) Oct 2019–Oct 2022

- Led country profiles for Peru, Ghana and Indonesia and analysed the global cocoa value chain for the Cocoa of Excellence Programme (Mar–Oct 2022).
- Built a statistical model of the costs and benefits of forest landscape restoration with quality planting material (Apr–Jun 2021).
- Studied cocoa and cadmium in Peru: producer typologies, producer interviews and business canvases with two cooperatives (Aug–Dec 2020).
- Co-developed an indicator system for tree seed systems, published in *Diversity*, 2021 (Oct 2019–Jul 2020).

Research Assistant | [University of Roma Tre](#) Feb–Jun 2022

- Reviewed the methods for estimating household carbon emissions, with Prof. Salvatore Morelli.

Consultant Statistician | [FAO, Rome](#) Sep–Dec 2021

- Assessed the feasibility of a composite indicator of FAO's Food Loss Index and UNEP's Food Waste Index for the Statistics Division.

Consultant Economist | [IDOS, Bonn \(Germany\)](#) Apr–May 2021

- Estimated how carbon taxes and cash transfers affect poverty and inequality in Peru; published in *Energy Policy* (2024).

Consultant Economist and Guest Researcher | IDOS, Bonn and Malawi 2019

- Designed and coordinated a qualitative survey (focus groups and interviews with savings and loan groups) on the social cohesion component of Malawi's TEEP programme (Aug–Nov 2019).
- Co-authored an impact evaluation of agroecology in Uruguayan primary schools (*Agroecology and Sustainable Food Systems*, 2020) as guest researcher in Bonn (Feb–Mar 2019).

Guest Researcher | Universidad de la República, Montevideo (Uruguay) Aug–Sep 2018

- Collected and analysed data for the impact assessment of a school garden programme (Programa Huertas en Centros Educativos).

Consultant Economist | Oxfam Italy, Rome May–Dec 2018

- Researched and drafted the report *Maturi per il cambiamento* on illegal hiring in agriculture and supermarket supply chains.

Freelance Photojournalist | The Washington Post, Heifer International and others 2013–2018

- Produced photo stories for international media and NGOs (also Under the Same Sun, Tulime Onlus), with assignments in Mexico and Tanzania.

Project Manager | St. Peter Fitness Club, Rome 2015–2016

- Ran the centre's operations, budget, and staff selection and management; designed a multichannel marketing strategy and organised community events.

Swimming Teacher and Lifeguard | CSI Roma Flaminio, Rome 2004–2018

EDUCATION

PhD in Economics and Finance | University of Rome Tor Vergata 2022–2026

Thesis: *Three Essays on Sustainable Development: Land Use, Measurement and Policy Coordination* (submitted; defence pending)

MSc in Economics and Development | University of Florence 2019–2022

MSc in Human Development and Food Security, summa cum laude | University of Roma Tre 2017–2018

BSc in International Cooperation and Development | Sapienza University of Rome 2013–2017

Training: CGE modelling in GAMS (global and single-country), geospatial tools, randomized controlled trials, network analysis (Barcelona School of Economics, EUI, cgemod); Data Science Specialization (Johns Hopkins, Coursera); Master in Photojournalism.

TEACHING

Six university courses at the University of Rome Tor Vergata and the University of Roma Tre (2018–2024): lecturer and coordinator of Research Methods, lecturer in R for Multivariate Analysis and in Computer Science; teaching assistant in Microeconomics, Environmental Economics and Big Data Analysis.

SELECTED PUBLICATIONS

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

Full list of publications and conference presentations at www.federicoroscioli.com.