

Benedetta Falsetti

Post Doc ECIP Division, CMCC

✉ benedetta.falsetti@cmcc.it

Professional Experience

- Feb 2022 - **Post Doc**, CMCC, ECIP Division, Milan
Research in modelling and economic assessment of climate change impacts related to asset stranding issues and associated macroeconomic assessment with general economic equilibrium modelling within the ECIP Division - Economic analysis of Climate Impacts and Policy. CASCADES project (Horizon 2020) - CAScading Climate risks : towards ADaptive and resilient European Societies
- Oct 2021 - Jan 2022 **PhD Tutor**, *Master of Science Degree in Architecture for Sustainability, Politecnico di Torino, Turin*
Tutoring with Professor Elena Vallino in Economics for Sustainable Architecture, Economic Policy module
- Sep 2021 - Nov 2021 **Visiting Scholar**, *Wageningen Economic Research - International Policy Division, The Hague, The Netherlands*
Aim of collaboration : Calibration of MAGNET (CGE model) with CWASI database for virtual water of primary agricultural products. AfCFTA scenario under the assumption of continent-wide tariff liberalization.
- Feb 2021- Sept 2021 **Remote Visiting Scholar**, *Wageningen Economic Research*
For the Covid situation, the visiting provides a virtual collaboration with the research institute.
- Apr 2020- **Co-creator and researcher WaterToFood**, *Science dissemination project*
Water To Food is a follow-up of the EU-funded CWASI - Coping with water scarcity in a globalized world- project born in 2015 from an idea of Professor Francesco Laio. Water To Food aims at disseminating and communicating the scientific results obtained with CWASI to the general public. <https://www.watertofood.org/>
- Nov 2018- May 2022 **PhD Student in Civil and Environmental Engineering**, *Politecnico di Torino*
ERC Project : "Coping with water scarcity in a globalized world" (CWASI) coordinated by Francesco Laio.
Supervisors : Francesco Laio and Luca Ridolfi.
Research aim : Virtual water trade in relation to its economic value from a global perspective.
- Jun 2017-Oct 2018 **Business Analyst**, *CNH INDUSTRIAL, Turin*
ICT (Information and Communication Technology). Data processing and analysis using specific tools (SQL language, Python). Management of the analysis, planning, and monitoring of the phases of an IT project. Verify the data reception from IT systems applied to vehicles through appropriate tools.

Education

- Nov 2018-May 2022 **Ph.D. in Civil and Environmental Engineering**, *Politecnico di Torino*
Economic implication of food-related virtual water trade. ERC Project : "Coping with water scarcity in a globalized world".
- Sep 2014-Mar 2017 **MSc. Environmental Economics**, *Department of Economics and Statistics Cognetti De Martiis, University of Turin*
Thesis : Water stress and relationships between virtual water consumption and economic growth.
Supervisors : Marco Maria Bagliani, Rosalba Ignaccolo and Vito Frontuto.
Grade : 110 cum laude with special mention and recommendation for publication.
- Sep 2015-Jan 2016 **Erasmus Program, "Palacky University"**, *Department of Development Studies, Olomouc, Czech Republic*
Courses : Project Cycle Management, Geoinformatics, Global Environmental Issues
- Sep 2011-Oct 2014 **BSc. Development Economics and International Cooperation**, *School of Economics and Management, University of Florence*
Thesis : The Oxymoron of Development. Looking for alternatives to current forms of economic growth ;

Summer Schools and Conferences

- Dec 2021 **Law and Economics of the Circular Economy Transition**, *5th IAERE School*, Ferrara, Italy
- Jun 2021 **24th Annual Conference on Global Economic Analysis "Global Food System : Opportunities and Challenges"**, *Online*
Falsetti. B., Levin-Koopman. J., Carrico. C., Ridolfi. L. and Laio. F., "The impact of the implementation of the African Continental Free Trade Area (AfCFTA) on virtual water trade flows."
- Apr 2021 **Ninth IAERE Annual Conference**, *Online*
Falsetti. B, Ridolfi. L, Laio. F., "Trade agreements as facilitators of commercial relationships for the cereal market."
- Apr 2021 **European Geosciences Union General Assembly 2021**, *Online*
Falsetti. B, Ridolfi. L, Laio. F., "Trade agreements as a driver for link activation and flow increase in the global cereal market."
- May 2020 **European Geosciences Union General Assembly 2020**, *Online*
Falsetti. B, Vallino. E, Ridolfi. L, Laio. F., "Is water consumption embedded in crop prices? A global data-driven analysis"
- Feb 2020 **Eight Italian Association Environmental and Resource Economists Annual Conference**, *Brescia*, University of Brescia, Italy
Poster : Falsetti. B, Vallino. E, Ridolfi. L, Laio. F., "Agricultural water consumption and crop prices."
- Nov 2019 **5th Annual Conference on the Economic Assessment of European Climate Policies**, *Florence School of Regulation*, European University Institute, Florence, Italy
- Nov 2019 **Green and Climate Finance**, *4th IAERE School*, Università "Tor Vergata", Rome, Italy
- Jul 2019 **Panel Data Econometric : theory and applications**, *SIDE- Italian Econometric Association*, Bertinoro, Italy
- Jan 2019 **Workshop : Footprint methodologies and their role in policy development and communication**, *German Development Institute*, Bonn, Germany
- Feb 2018 **Sixth Italian Association Environmental and Resource Economists Annual Conference**, *Campus Luigi Einaudi*, University of Turin, Italy
Bagliani. M, Falsetti. B, Frontuto. V, Ignaccolo. R, Laio. F, Vicendone E., "An Environmental Kutzens Curve for water footprint : evidence from a worldwide panel dataset."

Teaching experience

- Sept-Dec 2021 **Tutor PhD**, Economics for sustainable architecture (Economic policy), Politecnico di Torino
- Apr 2021 **SLOW FOOD External Lecturer**, L'orto in rete, l'acqua bene prezioso : l'impronta idrica, Online class
- Mar 2021 **Co-rapporteur for Master thesis : 'Water footprint and Environmental Kuznets Curve : an analysis with panel data and weighted estimates.'**, *Tommaso Felici*, *MSc course on Environmental Economics*, Economics and Statistics Cognetti De Martiis, University of Turin
- Nov 2020 **Water footprint and global water consumption**, *Web Seminar*, *MSc course on "Natural resources management" in Environmental Economics*, Economics and Statistics Cognetti De Martiis, University of Turin
- Jan 2020 **Green Finance**, *Seminar*, *Doctoral and Post Doctoral fellows course on "Environment and Economics" in Civil and Environmental Engineering*, Politecnico di Torino

Publications

- Work in progress **Unsustainable global freshwater consumption driven by economic growth and international trade**, *Tommaso Felici, Benedetta Falsetti, Vito Frontuto, Rosalba Ignaccolo, Marco Bagliani, Silvana Dalmazzone, and Francesco Laio*, Economics and Statistics Cognetti De Martiis, Turin

- Work in progress **The Advent of the AfCFTA : New Possibilities and Implications for the African Land-Water-Climate-Food Nexus**, Jason Levin Koopman, Caitlyn Carrico, and Benedetta Falsetti, Wageningen Economic Research, Netherlands
- In preparation **Scenarios for African virtual water trade and possible impacts of the African Continental Free Trade Agreement (AfCFTA)**, Benedetta Falsetti, Jason Levin Koopman, Caitlyn Carrico, Luca Ridolfi, and Francesco Laio, Wageningen Economic Research, Netherlands
- Apr 2022 **Role of trade agreements in the global cereal market and implications for virtual water flows.**, Benedetta Falsetti, Luca Ridolfi, and Francesco Laio, *Sci Rep* 12, 6790 (2022), <https://doi.org/10.1038/s41598-022-10815-7>, Department of Environmental, Land, and Infrastructure Engineering, Politecnico di Torino, Italy
- Oct 2021 **Water To Food : A data-viz book about the water footprint of food production and trade**, Elena De Petrillo, Benedetta Falsetti, Carla Sciarra and Marta Tuninetti, E-BOOK, ISBN : 979-12-200.9636-2
- Sept 2020 **Is water consumption embedded in crop prices? A global data-driven analysis.**, Benedetta Falsetti, Elena Vallino, Luca Ridolfi and Francesco Laio, *Environ. Res. Lett.* 15 104016, <https://iopscience.iop.org/article/10.1088/1748-9326/aba782>, Department of Environmental, Land, and Infrastructure Engineering, Politecnico di Torino, Italy

█ Awards

- Feb 2020 Best Poster Award. "Agricultural water consumption and crop prices". Co-author(s) : Francesco Laio, Luca Ridolfi, Elena Vallino. Eighth IAERE Annual Conference 6-7 February 2020, Brescia (Italy), https://www.iaere.org/wu/whatsup-at-iaere_015.html
- Jun 2018 Prize for the best thesis of the master's degree course "Economy of the environment, culture and territory" a.y 2015-2016, University of Turin.

█ Computer skills

- Python (Jupyter Notebook), -Tableau, -SQL, -Microsoft Excel, -Word, -PowerPoint, - \LaTeX .

█ Language skills

(i) Mother tongue : Italian (ii) English : **IELTS**, overall band score 7, C1.

█ Further information

Acquisition of 24 CFU for FIT enrolment.

I authorize the processing of my personal data pursuant to Legislative Decree no. 196.

Last update: August 2022