



C V n CURRÍCULUM VÍTAE NORMALIZADO



Francesco Sapino

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

I obtained a bachelor's degree in Energetic Engineering at the Polytechnic of Turin and a master's degree in Environmental Economics (with honors) at the University of Turin. My MSc thesis included a visiting period at the University of Salamanca (USAL) aimed to realize a microeconomic model to evaluate the impact of the water price reform proposed by the University of Turin and the Piedmont Region Authority. After the visiting period, I joined the research group led by Dionisio Pérez-Blanco at USAL where I started a Ph.D. in Economics. I successfully obtained my doctoral degree with the "international mention" and the highest qualification (summa cum laude). My Ph.D. thesis, titled "Sustainable water management in the agricultural sector under deep uncertainty", develops a multisystem (hydroeconomic) modeling framework that can advise and identify cost-effective and robust policies that reconcile public and private interests with collectively agreed environmental goals. During my Ph.D. I have been selected to participate in "2020 EAERE-ETH Winter school on Spatial Environmental and Resource Economics" and to present my works at relevant international conferences (AGU Fall meeting 2019, 2021, and 2022, EGU General Assembly 2020, IAHR World congress 2022, and MedGU 2022). I have also realized three visiting periods at the Polytechnic University of Valencia, at the IVM (Vrije Universiteit of Amsterdam), and at Fondazione CMCC in Venice. Each visiting period had the objective of collaborating with other researchers to produce a publication. In the last four years, I published six papers: three in JCR Q1 journals as first author, two in other JCR Q1 journals as second author, and one in a JCR Q3 journal as first author.

My research is focused on coupling human and natural systems in modeling frameworks that consider the co-evolution of the systems studied, to avoid unfavorable outcomes triggered by the possible two-way feedback between these systems. The modeling framework is applicable in different study cases (see my publications) to advise policies and evaluate the effect of water scarcity and management in the agricultural sector. The innovation proposed by this methodology is the consideration of the concept of deep uncertainty and therefore the use of multi-model ensemble, a technique to inform robust policies under uncertainty. I am also interested in behavioral economics and in the future, I would like to introduce the concept of this theory into agricultural modeling.

I collaborate with the successful realization of the project SWAN (Program of the attraction of the scientific talent) and ATACC (Spanish Ministry of the Environment), and I'm currently working on the TALANOA-WATER project (H2020) whose objective is to inform and catalyze the adoption of robust transformational adaptation strategies to water scarcity under climate change that contributes to the Integrated Water Resources Management (IWRM) objectives of social equity, economic efficiency, and environmental sustainability.







Francesco Sapino

Surname(s): Sapino
Name: Francesco

NIE: ORCID:

0000-0002-9812-2334

ScopusID: 57216561622
Date of birth: 13/04/1992
Gender: Male
Nationality: Italy
Country of birth: Italy
Aut. region/reg. of birth: Piemonte
Contact province: Salamanca

Contact province: Salamanca
City of birth: Moncalieri

Contact address: Edicifio F.E.S. Campus Miguel de Unamuno, Paseo Francisco

Tomás y Valiente, s/n

Postcode: 37007 Contact country: Spain

Contact aut. region/reg.:
Contact city:
Salamanca
Email:
Mobile phone:

Castile and León
Salamanca
fsapino@usal.es

Current professional situation

Employing entity: Universidad de Salamanca Type of entity: University

Department: Economics and economic history, Faculty of economics and social science

Professional category: Researcher

Start date: 01/05/2019

Type of contract: Temporary employment Dedication regime: Full time

contract

Performed tasks: My research is focused on coupling human and natural systems in modeling frameworks that consider the co-evolution of the systems studied, to avoid unfavorable outcomes triggered by the possible two-way feedback between these systems. The modeling framework is applicable in different study cases (see my publications) to advise policies and evaluate the effect of water scarcity and management in the agricultural sector. The innovation proposed by this methodology is the consideration of the concept of deep uncertainty and therefore the use of multi-model ensemble, a technique to inform robust policies under uncertainty. I collaborate with the successful realization of the project SWAN (Program of the attraction of the scientific talent) and ATACC (Spanish Ministry of the Environment), and I'm currently assigned to the H2020's TALANOA-WATER project working on the hydro-economic modeling (WP3: modeling) of four Living Laboratories (Spain, Tunisia, Lebanon, and Egypt)







Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

1 University degree: Master

Name of qualification: MSc in Environmental Economics

Degree awarding entity: University of Turin

Date of qualification: 20/03/2019

2 University degree: Bachelor

Name of qualification: B. Energetic Engineering

Degree awarding entity: Polytechnic of Turin Type of entity: University

Date of qualification: 29/07/2016

Doctorates

Doctorate programme: PhD in Economics

Degree awarding entity: Universidad de Salamanca Type of entity: University

Date of degree: 10/02/2023

European doctorate: Yes Date of certificate: 10/02/2023

Thesis title: Sustainable water management in the agricultural sector under deep uncertainty

Thesis co-director: C. Dionisio Pérez Blanco; Carlos Gutiérrez Martín

Obtained qualification: Summa cum Laude

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
French	B1	C1	A1	A1	A1
Spanish	C1	C1	C1	C1	B2
English	C1	C1	C1	C1	C1
Italian	C2	C2	C2	C2	C2







Scientific and technological activities

Scientific production

Publications, scientific and technical documents

1 Francesco Sapino; C. Dionisio Pérez Blanco; Pablo Saiz Santiago. A Hydro-Economic Model to Calculate the Resource Costs of Agricultural Water Use and the Economic and Environmental Impacts of their Recovery. Water Economics and Policy. 2023. Available on-line at: https://doi.org/10.1142/S2382624X22400124.

Type of production: Scientific paper Format: Journal

Francesco Sapino; Toon Haer; Pablo Saiz Santiago; C. Dionisio Pérez Blanco. A multi-agent cellular automata model to explore water trading potential under information transaction costs. Journal of Hydrology. 618, pp. 129195 - 129195. 2023. Available on-line at: https://www.sciencedirect.com/science/article/pii/S0022169423001373. ISSN 0022-1694

Type of production: Scientific paper Format: Journa

Corresponding author: Yes

C. Dionisio Pérez-Blanco; Francesco Sapino; Pablo Saiz-Santiago. First-degree price discrimination water bank to reduce reacquisition costs and enhance economic efficiency in agricultural water buyback. Ecological Economics. 205, pp. 107694 - 107694. 2023. Available on-line at: https://www.sciencedirect.com/science/article/pii/S092180092200355X. ISSN 0921-8009

Type of production: Scientific paper Format: Journal

4 C. Dionisio Pérez Blanco; Francesco Sapino. Economic Sustainability of Irrigation-Dependent Ecosystem Services Under Growing Water Scarcity. Insights From the Reno River in Italy. Water Resources Research. 58 - 2, Wiley Online Library, 02/02/2022. Available on-line at: https://onlinelibrary.wiley.com/doi/abs/10.1029/2021WR030478.

Type of production: Scientific paper Format: Journal

Francesco Sapino; C. Dionisio Pérez-Blanco; Carlos Gutiérrez-Martín; Alberto García-Prats; Manuel Pulido-Velazquez. Influence of crop-water production functions on the expected performance of water pricing policies in irrigated agriculture. Agricultural Water Management. 259, pp. 107248 - 107248. 2022. Available on-line at: https://www.sciencedirect.com/science/article/pii/S0378377421005254. ISSN 0378-3774

Type of production: Scientific paper Format: Journal

Francesco Sapino; C. Dionisio Pérez Blanco; Carlos Gutiérrez Martín; Vito Frontuto. An ensemble experiment of mathematical programming models to assess socio-economic effects of agricultural water pricing reform in the Piedmont Region, Italy. Journal of Environmental Management. 267, 01/08/2020. Available on-line at: https://doi.org/10.1016/j.jenvman.2020.110645.

Type of production: Scientific paper Format: Journal

Corresponding author: Yes







Works submitted to national or international conferences

1 Title of the work: A hydroclimatic-micro-macroeconomic model to assess climate change adaptation in the

agricultural sector.

Name of the conference: AGU Fall Meetin 2022 City of event: Chicago, United States of America

Date of event: 12/12/2022 **End date:** 16/12/2022

Organising entity: AGU: American Geophysical Union Francesco Sapino; Ramiro Parrado; C. Dionisio Pèrez Blanco.

2 Title of the work: The Long Way to Full Cost Recovery of Agricultural Water. A Methodology to Calculate

Resource Cost

Name of the conference: The 39th IAHR World Congress

City of event: Granada, Andalusia, Spain

Date of event: 19/06/2022 **End date:** 24/06/2022

Organising entity: IAHR: International Association for Hydro-Environment Engineering and Research

Francesco Sapino; C. Dionisio Pérez Blanco.

3 Title of the work: Price Discrimination Water Bank to Minimize Public Costs and Efficiency Losses of

Agricultural Water Buyback. Insightful Results from the Duero River Basin in Spain.

Name of the conference: AGU Fall Meeting 2021 City of event: New Orleans, United States of America

Date of event: 06/12/2021 **End date:** 17/12/2021

Organising entity: AGU: American Geophysical Union

Francesco Sapino; C. Dionisio Pérez Blanco.

4 Title of the work: Influence of crop-water production function on the expected performance of water

conservation policies

Name of the conference: EGU General Assembly 2020

Corresponding author: Yes

City of event: online, Date of event: 04/05/2020 End date: 08/05/2020

Organising entity: EGU: European Geoscience Union

Francesco Sapino; C. Dionisio Pérz Blanco; Carlos Gutiérrez Martín; Manuel Pulido Velazquez; Alberto

García Prats.

5 Title of the work: A microeconomic multi-model ensemble experiment to assess socio-economic effects of

agricultural water pricing reform in the Piedmont Region, Italy

Name of the conference: AGU fall meeting 2019

Corresponding author: Yes

City of event: San Francisco, United States of America

Date of event: 09/12/2019 **End date:** 13/12/2019

Organising entity: AGU: American Geophysical Union **City organizing entity:** United States of America







Francesco Sapino; C. Dionisio Pérez Blanco; Carlos Gutiérrez Martín; Vito Frontuto.

Other achievements

Stays in public or private R&D centres

1 Entity: Fondazione CMCC (Centro Type of entity: Foundation

Euro-Mediterraneo sui Cambiamenti Climatici) Faculty, institute or centre: ECIP Division

City of entity: Venice, Veneto, Italy

Goals of the stay: Doctorate

Provable tasks: Micro-macroeconomics models integration: during the research stay Francesco Sapino and members of the ECIP Division of CMCC coupled a regionalized CGE model with a microeconomic model

that describes farmers behavior

2 Entity: Vrije Universiteit (VU) Type of entity: University Research Institute

Faculty, institute or centre: IVM (Institute for Environmental Studies)

City of entity: Amsterdam, Holland

Start-End date: 27/09/2021 - 30/10/2021 **Duration:** 1 month

Goals of the stay: Doctorate

Provable tasks: Creation of a modeling framework that couples a microeconomic mathematical

programming model with an ABM (Agent-Based Model) to evaluate the transaction costs in a water market.

Paper published: https://doi.org/10.1016/j.jhydrol.2023.129195

3 Entity: Universidad Politécnica de Valencia Type of entity: University

City of entity: Valencia, Valencian Community, Spain

Start-End date: 25/11/2019 - 04/12/2019

Goals of the stay: Doctorate

Provable tasks: Creation of a multi-attribute mathematical programming model that allow for deficit irrigation as an adaptation strategy for farmers. Paper published:

https://doi.org/10.1016/j.agwat.2021.107248



