

## **ALLEGATO B**

UNIVERSITÀ DEGLI STUDI DI MILANO

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**VITO FRONTUTO**

*CURRICULUM VITAE*

# VITO FRONTUTO

## Curriculum Vitae

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University of Turin

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Department of Economics and Statistics "Cognetti de Martiis"

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[web-page](#)

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## PERSONAL

Date of Birth: September 28, 1980

Nationality: Italian.

## CURRENT

- Department of Economics and Statistics Cognetti de Martiis, University of Turin  
Junior lecturer Applied Economics (RTDA, since 01/07/2021)
- Fondazione per l'Ambiente "T. Fenoglio" (Turin)

## PAST

- Department of Economics and Statistics Cognetti de Martiis, University of Turin, and Regione Piemonte.  
Research scholar, project "Implementazione dell'analisi economica del piano di gestione del distretto idrografico del Po". 01/2020 - 06/2021.
- Department of Economics and Statistics "Cognetti de Martiis", University of Turin, and Regione Piemonte.  
Research Fellow, project "Revisione dei canoni per l'uso di acqua pubblica". 07/2019 - 08/2020.
- Department of Economics and Statistics "Cognetti de Martiis", University of Turin, and Regione Piemonte.  
Research scholar, project "Gestione delle risorse idriche: riequilibrare usi economici, servizi ecosistemici e cost recovery". 08/2018 - 06/2019.
- Department of Economics and Statistics "Cognetti de Martiis", University of Turin, and Regione Piemonte.  
Research Fellow project "Revisione dei canoni per l'uso di acqua pubblica". 07/2016 – 07/2018
- Department of Economics and Statistics "Cognetti de Martiis", University of Turin.  
Research Fellow, project "Observing, modelling and testing synergies and tradeoffs to adaptive management of multiple impacts in coastal systems (TETRIS)". 06/2013 – 11/2015.

## EDUCATION

- University of Turin (Vilfredo Pareto Doctoral Program in Economics)  
PhD in Economics, 2012  
Dissertation: "Residential Energy Demand: an Empirical Investigation using Italian Expenditure data".  
supervisor: Prof. Ugo Colombino
- University of Turin  
Bachelor in International and Diplomatic Sciences, Faculty of Political Sciences,  
supervisor: Prof. Silvana Dalmazzone

## SUMMER SCHOOLS

- EPFL Lausanne, 2010 (Winter School)  
Discrete Choice Analysis: Predicting Demand and Market Shares  
Prof. Bierlaire and Prof. Ben-Akiva. February, 2010.
- CEMFI Madrid, 2008 (Summer School)  
Non linear Panel Data  
Prof. Manuel Arellano.
- University of Turin, 2008 (Short Course)  
Microeconometrics,  
Prof. Steinar Strom. October 12-29, 2008.
- University of Turin, 2006 (Short Course)  
Valuation Techniques for Environmental Resources  
Prof. Riccardo Scarpa.

## TEACHING

- *Lecturer*, Quantitative methods for Development Economics, (18h), 2023 –Area and Global Studies for International Cooperation, Department of Cultures, Politics and Society, University of Turin.
- *Lecturer*, Economics, (Economia Politica), (18h), a.y. 21-22 - Laurea Ciclo Unico in Giurisprudenza, Department of Law, University of Turin.
- *Lecturer*, Local Public Economy and Finance, (Economia e Finanza Pubblica Locale), (18h), a.y. 21-22 - Laurea Magistrale in Scienze del Governo, Department of Cultures, Politics and Society, University of Turin.
- *Lecturer*, Evaluation of Environmental and Cultural Heritage, (Valutazione di beni ambientali e culturali), (36 h), 2013-2023 – Laurea Magistrale in Economia dell’Ambiente, della Cultura e del Territorio, Department of Economics and Statistics "Cognetti de Martiis", University of Turin.
- *Lecturer*, Master "World Heritage and Cultural Projects for Development", (10h), 2018-2023 - Polytechnic of Torino, University of Torino and International Training Center-ILO.
- *Lecturer*, Master "Cultural Property Protection in Crisis Response", (10h), 2020 - University of Torino and COREP.
- *Tutor*, Quantitative Methods and Econometrics using R, (8h), a.y 12-13, Department of Economics and Statistics "Cognetti de Martiis", University of Turin.
- *Tutor*, Quantitative Methods and Econometrics using STATA, (8h), a.y. 12-13, Department of Economics and Statistics "Cognetti de Martiis", University of Turin.
- *Teaching Assistant*, Global Economics, (20h), 12-13, Saint John International University (Turin, Italy).
- *Supervision*  
From 2014, I am been the supervisor of the final theses of about 50 master students and joint-supervisor on econometrics and quantitative analysis for further 70 theses, for the Laurea Magistrale in Economia dell’Ambiente, della Cultura e del Territorio, Department of Economics and Statistics "S. Cognetti de Martiis", and involved in the supervision of 2 doctoral dissertations for the Vilfredo Pareto Doctoral Programme in Economics.

## PUBLICATIONS

### PEER REVIEWED

- ["The landscape impact of agricultural sheds in rural UNESCO site: public preferences and planning solutions"](#), (with Gullino P., Larcher F., Battisti L., Devecchi M., Novelli S., Corsi A.), **Environment Science and Policy** (2023).
- ["To make wine, to sell the grapes or to deliver them to a cooperative: determinants of the allocation of the grapes"](#), (with Corsi A., Mazzarino S.), **Journal of Wine Economics** (2023).
- ["Landscape heterogeneity, basis risk and the feasibility of index insurance: the case of rice in upland regions of Southeast Asia"](#), (with Rigo R. and Santos P.), **Food Policy** (2022).

- [“Relational goods and direct purchase from farmers: estimating the value of the relationship between consumers and producers”](#) (with Corsi A. and Novelli S.), **International Food and Agribusiness Management Review** (2021).
- [“Drivers of Protein Consumption: A Cross-Country Analysis”](#), (with Andreoli V., Bagliani M. and Corsi A.), **Sustainability** (2021).
- [“What Drives Farm Structural Change? An Analysis of Economic, Demographic and Succession Factors”](#), (with Corsi A. and Novelli S.), **Agriculture** (2021).
- [“Risk Aversion, Inequality and Economic Evaluation of Flood Damages: A Case Study in Ecuador”](#), (with Dalmazzone, S., Salcuni, F. and Pezzoli, A.), **Sustainability** (2020).
- [“A microeconomic multi-model ensemble experiment to sample uncertainty, explore tipping points and assess socio-economic effects of agricultural water pricing reform in the Piedmont region, Italy”](#), (with Sapino F., Gutierrez-Martin C. and Perez-Blanco C.D.), **Journal of Environmental Management** (2020).
- [“The visual impact of agricultural sheds on rural landscapes: the WTP for mitigation solutions and treatment effects”](#), (with Corsi A., Novelli S., Gullino P. and Larcher F.), **Land Use Policy** (2020).
- [“Forecasting household consumption of fuels: a multiple discrete-continuous approach”](#), **Applied Energy** (2019).
- [“Earmarking conservation: further inquiry on scope effects in stated preference methods applied to nature-based tourism”](#), (with Dalmazzone S., Vallino E. and Giaccaria S.), **Tourism Management** (2017).
- [“Valuing externalities from energy infrastructures through stated preferences: A geographically stratified sampling approach”](#), (with Giaccaria S. and S. Dalmazzone), **Applied Economics** (2016).
- [“Perceived health status and environmental quality in the assessment of external cost of waste disposal facilities. An empirical investigation”](#), (with Giaccaria S.), **Waste Management and Research** (2012).

#### *BOOK CHAPTER*

- [“Environmental and Resource Costs Assessment and the Case for Reforming the Italian System of Water Abstraction Charges”](#), in "Water law, policy and economics in Italy", P. Turrini, A. Massarutto and M. Pertile (eds.): Springer (2020). (with Dalmazzone S., Mancin P., Giannetta A. and Cala' D.).

#### *WORK IN PROGRESS*

- "Is there an Animal Food Kuznets Curve, and does it matter? A theoretical and empirical investigation", (with Felici T., Andreoli V., Bagliani M. and Corsi A.), *under review*, **Food Policy**.
- "Inter-algal competition via a space-implicit dynamical model breaking mass hypothesis", (with Collini D., Barletti L., Dalmazzone S., Tamburello L., Materassi M.), *under review*, **Scientific Reports**.
- "Economic Valuation of Industrial Heritage: A Choice experiment on Shanghai Baosteel Industrial Site.", (with Bertacchini E.), *under review*, **Journal of Cultural Heritage**.

#### *WORKING PAPERS*

- [“Environmental and Resource Costs Assessment and the Case for Reforming the Italian System of Water Abstraction Charges”](#), in "Water law, policy and economics in Italy", P. Turrini, A. Massarutto and M. Pertile (eds.): Springer (2020). (with Dalmazzone S., Mancin P., Giannetta A. and Cala' D.).
- [“Residential Energy Demand: a Multiple discrete-continuous extreme value model using Italian Expenditure data”](#), WP series of the Department of Economics, University of Turin, QR 12 n.3 – 2012.
- [“Who’s afraid of power lines? Merging survey and GIS data to account for spatial heterogeneity”](#), (with Giaccaria S. and Dalmazzone S.), WP series of the Department of Economics, University of Turin, QR 10 n.2, 2010.
- [“GIS and Geographically Weighted Regression in stated preferences analysis of the externalities produced by linear infrastructures”](#), (with Giaccaria S.), WP series of the Department of Economics, University of Turin, QR 10 n.07, 2007.

## NON-PEER REVIEWED

- Russolillo D., Frontuto V. (2013), “La morosità nei pagamenti dei servizi a rete”, (with Russolillo D.), Servizi a Rete, Maggio-Giugno 2013.
- “Il costo della morosità”, (with Russolillo D.), Servizi a Rete, Luglio-Agosto 2013.
- “Economics and policy of biodiversity loss”, (with Dalmazzone S. and Giaccaria S.), Environmental training community newsletter, n.4, 2007.

## RESEARCH REPORTS

- UNEP, Green Economy Fiscal Policy Analysis - Mauritius, (with Dalmazzone S., Brosio G. and Piazza S.) 2016, <http://www.greenfiscalspolicy.org/wpcontent/uploads/2016/09/Fiscal-Policy-Analysis-Mauritius.pdf>.
- UNEP, Green Economy Fiscal Policy Analysis - Ghana, (with Dalmazzone S., Brosio G. and Piazza S.), 2015, <http://web.unep.org/greeneconomy/sites/unep.org.greeneconomy/files/field/image/fiscalspolicy-analysis-ghana.pdf>.
- Le tariffe dei servizi pubblici locali e la spesa delle famiglie italiane - Un'analisi sui principali comuni piemontesi (MONSPL, Edizione 2013). Fondazione per l'Ambiente T. Fenoglio, 2013.
- Le tariffe dei servizi pubblici locali e la spesa delle famiglie italiane - Un'analisi sui principali comuni piemontesi (MONSPL, Edizione 2012). Fondazione per l'Ambiente T. Fenoglio, 2012.
- Le tariffe dei servizi pubblici locali e la spesa delle famiglie italiane - Un'analisi sui principali comuni piemontesi (MONSPL, Edizione 2011). Fondazione per l'Ambiente T. Fenoglio, 2011.
- A choice modelling study for the assessment of impacts of municipal waste disposal systems. (with Colombino U., Dalmazzone S. and Giaccaria S.), Department of Economics, University of Turin, 2007.
- Valuation of the impacts of High Voltage Power Lines, (with Colombino U., Dalmazzone S. and Giaccaria S.), Department of Economics, University of Turin, 2006.
- Implementing a toolkit for the valuation of infrastructures externalities, as a support for decision-making, (with Colombino U., Dalmazzone S. and Giaccaria S.), Department of Economics, University of Turin, 2005.

## PROJECTS

- "MONSPL - Monitoraggio dei servizi pubblici locali" - Editions 2011-2012-2013-2014  
Fondazione per l'Ambiente Teobaldo Fenoglio (Torino), Turin School of Local Regulation and Camera di Commercio Industria Artigianato e Agricoltura di Torino.
- "AFFORD - La sostenibilità delle tariffe dei servizi pubblici locali - Raccolta ed analisi dati su povertà energetica e deprivazione delle famiglie" - 2012  
Turin School of Local Regulation and Fondazione per l'Ambiente Teobaldo Fenoglio (Turin), with the support of SMAT spa, IREN spa, EGEA spa and Fondazione Ufficio Pio - Compagnia di Sanpaolo.
- GERME “Green Economy Scenarios in the Mediterranean Region” – 2013  
Collegio Carlo Alberto (Turin), UNESCO and UNITWIN (Chair in Sustainable Development and Territory Management).
- PRIN - TETRIS “Osservazione, analisi sperimentale e modellizzazione per la gestione di impatti multipli nei sistemi costieri (TETRIS): Analisi dei benefici e trade-off economici” (PRIN 2010/2011).
- UNEP 61-P3-United Nations Environment Programme, United Nations Environment Programme (UNEP).  
“Policy, macroeconomics assessment and instruments to empower governments and business to advance resource efficiency and move towards a green economy” – 2014/2015.
- ACCORDO di COLLABORAZIONE ISTITUZIONALE “Programma di Attività Implementazione dell'Analisi Economica del Piano di Gestione del Distretto Idrografico del Po nel territorio piemontese”  
Regione Piemonte – Direzione Ambiente, Governo e Tutela del territorio and Department of Economics and Statistics “Cognetti de Martiis” University of Turin. 2015/2016
- INTERREG ALCOTRA - "EAU CONCERT 2 - Concertazione e azioni di valorizzazione degli ecosistemi fluviali". 2017/2020

Regione Piemonte, Università di Milano, Syndicat Mixte Interdépartemental d'Aménagement du Chéran, BIM Dora Baltea Canavesana and Department of Economics and Statistics "Cognetti de Martiis".

- ACCORDO di COLLABORAZIONE ISTITUZIONALE "Implementazione dell'Analisi Economica ex DQA a supporto della pianificazione per il distretto idrografico del fiume Po" - CURRENT Autorità di Bacino Distrettuale del fiume Po (AdBPo), University of Bologna, University of Ferrara and Department of Economics and Statistics "Cognetti de Martiis".

## QUALIFICATIONS

- National Scientific qualification as associate in the Italian higher education system for the disciplinary field of 07/A1 - Agricultural economics and Estimate (expiring 15/06/2034).

## GRANTS AND FELLOWSHIPS

- Individual research grant Master dei Talenti della Società Civile (2012), Fondazione Cassa di Risparmio di Torino (CRT). Project: Il consumo energetico delle famiglie italiane. Analisi di impatto delle scelte pubbliche sulla diffusione di comportamenti virtuosi. 2012
- Scholarship for attending the PhD Program in Economics (2008-2011), University of Turin.

## CONFERENCES

- Felici T., Frontuto V., Andreoli V., Bagliani M., Corsi A., "Is there an Animal Food Kuznets Curve, and does it matter? A theoretical and empirical investigation, presented 28th Annual Conference of the European Association of Environmental and Resource Economists (EAERE 2023), Cyprus, 27 June - 01 July.
- Frontuto V., Dalmazzone S., Trapped in Energy Poverty? A European panel estimation, presented at the Workshop SEEDS, Ferrara, 20 December 2002.
- Frontuto V., Menegat S., Dalmazzone S., Distributional impacts of the extension of the EU-ETS to transport fuels, presented at the X Annual Conference of the Italian Association of Environmental and Resource Economists (IAERE 2022), Cagliari, 21-22 April.
- Frontuto V., Fontana M., Piccato F., Bottaccioli, L., Assessing pricing effects on costs and benefits distribution of energy provision: a peer-to-peer energy community case study, presented at the XXI Conference of the Italian Association for the Study of Comparative Economic Systems (AISSEC 2020), online, 8-9 October.
- Frontuto V., Dalmazzone S., Pezzoli A., Salcuni F., "Risk aversion, income inequality and the economic evaluation of flood damages: a case study in Ecuador", presented at the Eighth Annual Conference of the Italian Association of Environmental and Resource Economists (IAERE 2020), Brescia, 6-7 February.
- Frontuto V., Dalmazzone S., Besana A., Mancin P., "Public water use and ecosystem services: towards a WFD compliant water pricing reform", presented at the 7th Annual Conference of the Associazione Italiana di Economia Agraria e Applicata (AIEAA 2018), Conegliano (TV), 14-15 June.
- Frontuto V., Dalmazzone S., Montalto V., Primiani L. and Sara' G., "Into Hot Water? The impact of climate change on Mediterranean aquaculture", presented at the 23rd Annual Conference of the European Association of Environmental and Resource Economists (EAERE 2017), Athens, 28 June - 01 July.
- Frontuto V., Russolillo D., Becchis F., "Pay or not to pay...that is the question! The case of delays of payments in local public services and the Turin Index", presented at the Fifth Annual Conference of the Italian Association of Environmental and Resource Economists (IAERE 2017), Roma, 16-17 February.
- Frontuto V., Dalmazzone S., Montalto V., Primiani L. and Sara' G., "Into Hot Water? The impact of climate change on Mediterranean aquaculture", presented at the Fourth Annual Conference of the Italian Association of Environmental and Resource Economists (IAERE 2016), Bologna, 11-12 February.
- Montalto V., Dalmazzone S., Frontuto V., Primiani L., Helmuth B. and Sara' G., "Projecting the future potential of shellfish sector in the Mediterranean Sea and possible economic rebounds", presented at the annual conference of Società Italiana Ecologisti, Roma, 21-25 September 2015.

- Dalmazzone S., Damiano, Frontuto V., "The Economics of Carbon Costing", presented at the annual conference of Societa' Italiana Ecologisti, Roma, 21-25 September 2015.
- Di Bartolo L., Frontuto V., Ravagnoli C., Bulleri F., Focardi S., Materassi M., Dalmazzone S., "A bio-economic model of the value of the ecosystem services provided by Posidonia Meadows", presented at the annual conference of Societa' Italiana Ecologisti, Roma, 21-25 September 2015.
- Airoidi L., Strain E.M., Frontuto V., Dalmazzone S., "Besides mitigation and adaptation: managing for synergistic interactions between local and global stressors as resilience approach to climate change policies", presented at the annual conference of Societa' Italiana Ecologisti, Roma, 21-25 September 2015.
- Frontuto V. and Dalmazzone S., "Green Tariffs and Household Electricity Consumption: an agent-based Simulation", presented at the Fifth World Conference of Environmental and Resource Economists (WCERE 2014), Istanbul, 28 June 2014 - 02 July 2014.
- Frontuto V. and Dalmazzone S., "Green Tariffs and Household Electricity Consumption: an agent-based Simulation", presented at the Second Annual Conference of the Italian Association of Environmental and Resource Economists (IAERE 2014), Milano, 13-14 February.
- Frontuto V., "Residential Electricity Production and Consumption: the case of Photovoltaic Systems", presented at the First Annual Conference of the Italian Association of Environmental and Resource Economists (IAERE 2013), Ferrara, 8-9 February.
- Frontuto V., "End-Use Residential Energy Demand: a MDCEV-GEV Model for the Joint Estimation of Perfect and Imperfect Substitute Goods", invited speaker FEEM-IEFE Joint Seminar Series, Milan, December 6<sup>th</sup>
- Frontuto V., "Multiple Discrete-Continuous Extreme Value Model for Household Energy Demand", presented at the 19th annual Conference of the European Association of Environmental and Resource Economists (EAERE 2012), Prague, June 27th.
- Frontuto V., "Residential Energy Demand: a Multiple Discrete-Continuous Extreme Value Model using Italian Expenditure Data", presented at the 18th annual Conference of the European Association of Environmental and Resource Economists (EAERE 2011), Rome, June 29th.
- Giaccaria S., Frontuto V. and S. Dalmazzone, "Who's afraid of power lines? Merging survey and GIS data to account for spatial heterogeneity", presented at the 18th annual Conference of the European Association of Environmental and Resource Economists (EAERE 2011), Rome, June 29th.
- Giaccaria S., Frontuto V., GIS and Geographically Weighted Regression in stated preferences analysis of the externalities produced by linear infrastructures, presented at the 15th annual Conference of the European Association of Environmental and Resource Economists (EAERE 2007), Thessaloniki, June 27th.
- Giaccaria S., Frontuto V., "Implementing a toolkit for the valuation of infrastructures externalities as a support for decision-making", presented at the 3rd National conference of NUVAL, Rete dei Nuclei di Valutazione e Verifica degli Investimenti Pubblici (Network of groups for the assessment of public investments), Bologna, February 1st 2006.

## CONFERENCES ORGANIZER

- Co-chair Organisation and Scientific Committee Sixth Annual Conference of the Italian Association of Environmental and Resource Economists (IAERE 2018), University of Turin.
- Member of Organisation Committee "3rd Italian Doctoral Workshop in Economics and Policy Analysis", 2010. Collegio Carlo Alberto and University of Turin.

## FIELDS OF SPECIALIZATION

Non-Market Valuation, Agricultural Economics, Energy and Water Economics, Waste Economics, Green Fiscal Reforms, Economics of Public Utilities, Econometrics.

## DUTIES

- Membro della Giunta di Dipartimento – Current Department of Economics and Statistics "Cognetti de Martiis", University of Turin.
- Erasmus+ Coordinator (Norwegian School of Economics and University of Trondheim) - Current Department of Economics and Statistics Cognetti de Martiis, University of Turin.
- Member of the Working Group Energy of the UniTo Green Office – Current University of Turin.

- Representative of the temporary research fellows 2018– 2020 (Jan-Nov)  
Dept. of Economics and Statistics Cogneetti de Martiis, University of Turin

## REFEREEING ACTIVITY

European Economic Review, Resource and Energy Economics, Applied Energy, Sustainability, Agricultural Water Management, Tourism Management, Canadian Water Resources Journal.

## LANGUAGES

Italian (native), English (fluent)

## SOFTWARE

Advanced users of MS Office and of statistical softwares (STATA, GAUSS, R, BIOGEME)  
Good user of geographical softwares (QGIS, ARCGIS).

TORINO, July 20 2023