ALFONSO CARFORA

Curriculum Vitae
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Education

Type	Year	Institution / Qualification	Notes
Post-graduate studies	2014	Post-graduate Degree in "Applied Econometrics"	Scuola Nazionale dell'Amministrazione, Rome
Ph.D.	2007–2009	Ph.D. in "Applied Statistics"	Department of Statistics and Mathematics for Economic Research, University of Naples "Parthenope"
Post-graduate studies	2005	Master's Degree in "Data Intelligence e Strategie Decisionali"	University of Rome "La Sapienza"
University graduation	2004	University of Naples "Parthenope"	International Economics

Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
2026		University of Macerata	Associate professor in Economic Statistics
2023	2026	University of Macerata	Assistant professor in Economic Statistics
2014	2014	University of Rome "LUISS Guido Carli"	Expert in the field of Public finance
2012	2013	University of Naples "Parthenope"	Research Fellow in Economic Statistics

IIIB – Other Appointments

Start	End	Institution	Position
2025		State General Accounting Department of the Ministry of Economy and Finance	Economics and Econometrics Specialist
2021	2023	Italian Revenue Agency	Head of the Fiscal policy evaluation unit
2013	2021	Italian Revenue Agency	Statistician
2006	2007	Ericsson Italia Telecomunicazioni S.P.A., Rome	Marketing Analyst

Teaching experience

Year	Institution	Lecture/Course
from 2023	University of Macerata	Economic Statistics
2024	University of Naples "Parthenope"	Economic Statistics

Society memberberships, Awards and Honors

Year	Title
2013	Acknowledgment for the second best article in "Applied Statistics" for the paper "The Italian election polls over time: An analysis of the quality and completeness of the methodological aspects" presented at the conference: "Il valore della statistica per le imprese e la società. Ricerche di opinione e di mercato", Milan, 14–15 February 2013.

Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program	Grant value

Research Activities

Keywords	Brief Description
Environmental public policies; Shadow economy; National accounts.	Research activity focuses on the impact evaluation of public policies and their effects on firms and individuals, the shadow economy estimates and tax evasion in the national and international context.

Summary of Scientific Achievements

Product type	*Number*	*Data base*	*Start*	*Last*
Papers [international]	46	Scopus	2009	2026
	3	Working papers series	2015	2020
	8	Others	2011	2025
Papers [national]	1		2009	2009
Books [scientific]	2		2009	2018
Books [teaching]				

Total Impact factor	139.23
Total Citations	1,196
Hirsch (H) index	17
Normalized H index*	1

*H index divided by the academic seniority.

Publications

Carfora A., Cutrini E., Ninivaggi F. (2026). Institutional quality, structural change and regional development in the EU. Regional Studies Regional Sciences.

Santoro, L., Carfora, A., De Simone, E., & Gaeta, G. L. (2026). Tax Enforcement and Revenue Dynamics under Alternating Leniency and Stringency Policies. *Journal of Policy Modeling*, 107081.

Carfora, A., Chelli, F. M., Scandurra, G. (2026) Undermined by Rebounds? Assessing the Role of Energy Efficiency in Alleviating Energy Poverty in Italy. Socio-Economic Planning Sciences 106 ,102542

Carfora A., Polinesi G., Recchioni M.C., Ciommi, M.T., Mariani F. (2026), A new distributional based indicator to measure energy poverty in Italy. *Socio-Economic Planning Sciences* 105, 102511.

Carfora, A., Scoppola, M., Montagnani, F. (2026), Greening Regional Trade Agreements and domestic regulation. *Review of World Economics*. pp. 1 – 14. https://doi.org/10.1007/s10290-026-00638-3

Scandurra, G., Carfora, A., Thomas, A., Camporeale, C. (2026). Predicting energy poverty using household budget survey: a machine learning approach, Annals of Operation Research, pp. 1 - 28 (ISSN: 0254-5330).

Polinesi, G., Recchioni, M. C., Ciommi, M., Mariani, F., Carfora, A. (2026) Assessing energy poverty in Italy: an endogenous cut-off determination in Rivista Italiana di Economia, Demografia e Statistica; Vol. LXXX-2. pp. 175 – 186.

Scandurra, G, Thomas, A., Carfora, A. (2026) The Investments in Ecological Innovations: An Empirical Analysis of SMEs in *Italy in Innovation Strategies and the Sustainable Development Goals A Blueprint for Sustainable Transformation*; Routledge; pp. 110 – 130. (ISBN: 9781032881652)

Carfora, A, Pacifico, A., Scandurra, G. (2025). Do Fiscal Incentives Boost Energy Transition and Energy Efficiency? The Case of Italian Bonuses (and Superbonuses). *Italian Economic Journal.* 10.1007/s40797-025-00346-1.

Carfora, A., Minervini L.F., Scandurra, G., (2025). Fiscal incentives for energy poverty in Italy: Bridging the gap or missing the mark?, *Energy Research & Social Science*, 126C, 104161.

Struga, M., Polinesi, G., Rossi, M., Carfora, A., Comodi, G., Marko, O (2025). Measuring Energy Poverty in Rural Albania: A Multidimensional and Context-Sensitive Approach. Energy Policy, 206, 114804.

Carfora, A., Chelli, F. M., Scandurra, G. (2025). The Dual Impact of Energy Efficiency and Rebound Effects on Energy Poverty: An Italian Case Study in *Sustainability, Innovation and Digitalization: Statistical Measurement for Economic Analysis. BOOK OF SHORT PAPERS;* Napoli, Enzo Albano; pp. 85 - 88 (ISBN: 979-12-80655-52-3)

Carfora A., Scandurra G. (2025), The multifaced challenge to tackle energy poverty: outlook scenarios for EU countries. In: Pollice A., Mariani P. *Methodological and Applied Statistics and Demography SIS 2024 - Short Papers*, vol III. ISBN: 978-3-031-64430-6.

Carfora, A., Scandurra, G. (2024). Boosting green energy transition to tackle energy poverty in Europe, *Energy Research & Social Science*, 103451.

Scandurra, G., Carfora, A., Thomas, A. (2024). Exploring the effect of energy transition on energy poverty in the European Union: Empirical evidence. *Energy Sources, Part B: Economics, Planning, and Policy*,19(1).

Thomas, A., Scandurra, G., Carfora, A. (2024) Conceptualizing an interpretative framework for energy transition among Italian innovative small and medium enterprises, *Energy Policy*, 195, 114392.

Carfora A., Scandurra G., Thomas A. (2024). Does Crime Influence Investment in Renewable Energy Sources? Empirical Evidence from Italy. *Energies,* 17(14):3393.

Carfora, A., Scandurra, G. (2024). Forecasting Energy Poverty in European Countries: The Effect of Increasing Energy Commodities Prices, *Energies*, 17(5), 1224.

Carfora, A., Cutrini, E., Minervini, L.F. (2024). Concentration of Income and Wealth in Italy and Remarks on Their Tax Treatment in La sostenibilità. Percorsi tra ambiente, società e governance; EUM Edizioni Università di Macerata; pp. 99-125 (ISBN: 978-88-6056-973-8)

Abdallah, I., Carfora, A., Scaccia, L. (2024). The path towards sustainability in the European Union countries: the role of the renewable energy policies in La sostenibilità. Percorsi tra ambiente, società e governance; Macerata, EUM - Edizioni Università di Macerata; pp. 1 - 21 (ISBN: 978-88-6056-973-8).

Thomas, A., Scandurra, G., Carfora, A. (2023). Profiling green innovative behaviour: Evidence from Italian technology-based SMEs, *Journal of Engineering and Technology Management* 69, 101764.

Carfora, A., Passaro, A., Scandurra, G., Thomas, A. (2022). Do determinants of eco-innovations vary? An investigation of innovative SMEs through a quantile regression approach, *Journal of Cleaner Production* 370,133475.

Carfora, A., Pansini, R.V., Scandurra, G. (2022). Energy dependence, renewable energy generation and import demand: Are EU countries resilient?, *Renewable Energy*,195, 1262-1274.

Carfora, A., Passaro, A., Scandurra, G., Thomas, A. (2022). The Causal Nexus between Income and Energy Poverty in EU Member States, *Energies*, 15, 2822, 1-16.

Carfora, A., Scandurra, G., Thomas, A. (2022). Forecasting the COVID-19 effects on energy poverty across EU member states*, Energy Policy*, 161,112597.

Carfora, A., Scandurra, G., Thomas, A. (2021). Factors affecting official development assistance distribution. A panel investigation, *Journal of Cleaner Production*, 304, 126970.

Thomas, A., Scandurra, G., Carfora, A. (2021). Adoption of green innovations by SMEs. An investigation about the influence of stakeholders, *European Journal of Innovation Management*, ISSN: 1460-1060.

Carfora, A., Thomas, A., Scandurra, G. (2021). Determinants of environmental innovations supporting small and medium-sized enterprises sustainable development, *Business Strategy and the Environment*, 30 (5) 2621-2636.

Carfora, A., Pansini, R.V., Scandurra, G. (2021). The role of environmental taxes and public policies in supporting RES investments in EU countries: barriers and mimicking effects, *Energy Policy*, 149, 112044.

Braiotta A., Carfora A., Pansini R.V., Pisani S. (2020). Tax Gap and Redistributive Aspects across Italy, *Italian Journal of Regional Science,* 19(2), 205-226.

Scandurra, G., Thomas, A., Passaro R., Bencini J., Carfora, A. (2020), Does climate finance reduce vulnerability in Small Island Developing States? An empirical investigation, *Journal of Cleaner Production,* 256 (20), 1-11.

Romano, A.A., Scandurra, G., Carfora, A., Ronghi M. (2019), Forecasting the RES generation in developed and developing countries: a dynamic factor model approach, *Energy Sytems*, 10(4), 1071-1091.

Carfora A., Scandurra G. (2019), The impact of climate funds on economic growth and their role in substituting fossil energy sources, *Energy Policy*, 129, 182–192.

Carfora A., Pansini R.V., Scandurra G. (2019), The causal relationship between energy consumption, energy prices and economic growth in Asian developing countries: A replication, *Energy Strategy Review*, 23C, 81-85.

Carfora A., Pansini R. V., Pisani S. (2018), Regional Tax Evasion and Audit Enforcement, *Regional Studies*, 52 (3) 362-373.

De Luca G., Carfora A. (2018), A Dynamic Factor Model for Italian and German Recessions, *International Journal of Business and Social Science* Vol. 9, No. 8.

Carfora A., Pansini R.V., Romano A.A., Scandurra G. (2018), Renewable energy development and green public policies complementarities: The case of developed and developing countries, *Renewable Energy*, 115, p. 741-749.

Scandurra G., Romano A.A., Ronghi, M., Carfora A. (2018), On the vulnerability of Small Island Developing States: A dynamic analysis, *Ecological Indicators* 84, 382 – 392.

Romano A.A., Scandurra G., Carfora, A., Ronghi, M. (2018), Climate Finance As an Instrument to Promote the Green Growth in Developing Countries, *SpringerBrief in Climate Studies*, Springer, Berlin ISBN: 978-3319607108.

Carfora A., Pansini R. V. (2018), The Dynamic of the United States' CO2 Emissions: An Empirical Multidimensional Analysis. In: Scandurra G., *Focus on Renewable Energy Sources.* Hauppauge NY: Nova Science Publishers, Inc., ISBN: 9781536138023.

Carfora A., Pansini R. V., Pisani S. (2018), Spatial Dynamic Modelling of Tax Gap: the Case of Italy, *European Spatial Research and Policy* 25(1), 7-28.

Carfora A., Scandurra G. (2018), The climate funds for energy sustainability: a counterfactual analysis. In: Abbruzzo A, Brentari G., Chiodi M., Piacentino D., *Book of Short Papers SIS 2018*, Chapter 5.8 p. 1-6, ISBN: 9788891910233.

Carfora A., Romano A.A., Ronghi M., Scandurra G. (2017), Renewable generation across Italian regions: Spillover effects and effectiveness of European Regional Fund, *Energy Policy*, 102, 132-141.

Carfora A., Ronghi M., Scandurra G. (2017), The effect of Climate Finance on Greenhouse Gas Emission: A Quantile Regression Approach, *International Journal of Energy Economics and Policy*, 2017, 7(1), 185-199.

Romano A.A., Scandurra G., Carfora A., Fodor M. (2017), Renewable investments: The impact of green policies in developing and developed countries, *Renewable and Sustainable Energy Reviews*, 68, 738-747.

Romano A.A., Scandurra G., Carfora A., Pansini R.V., (2016), Assessing the determinants of SIDS' pattern toward sustainability: A statistical analysis, *Energy Policy*, 98, 688-699.

Romano A.A., Scandurra G., Carfora A. (2016), Estimating the Impact of Feed-in Tariff Adoption: Similarities and Divergences among Countries through a Propensity-score Matching Method, *International Journal of Energy Economics and Policy*, 6(2), 1-8.

Romano A.A., Scandurra G., Carfora A. (2016), Probabilities to Adopt Feed in Tariff by OPEC Countries Using a Panel Probit Model, *Energy Systems*, 7 (3): 449-468.

Romano A.A., Scandurra G., Carfora A. (2015), Environmental, Generation and Policy Determinants of Feed-in Tariff: a Binary Pooling and Panel Analysis, *Metodološki Zvezki - Advances in Methodology and Statistics*, 12(2):111-122.

Romano A.A., Scandurra G., Carfora A. (2015), Is Feed-in Tariff Forever?, *International Energy Journal,* 15 (1): 1-8.

Romano A.A., Scandurra G., Carfora A. (2015), Probabilities to adopt feed in tariff conditioned to economic transition: A scenario analysis, *Renewable Energy,* 83, 988-997.

De Luca G., Carfora A. (2014), Predicting U.S. recessions through a combination of probability forecasts, *Empirical Economics*, vol. 46-1, 127-144.

De Luca G., Carfora A. (2014), Modelling Recession in Two European Countries: the Generalized BHAR model, *Electronic Journal of Applied Statistical Analysis*, vol. 7- 1.

Quintano C., Rocca A. Carfora A. (2013), The Italian political and pre-election polls over time: A data quality analisys *Statistica Applicata - Italian Journal of Applied Statistics,* vol. 25 (1), 39-60.

Carfora A. (2011), Applications of BAR and BARMA models: the analysis of lack of convergence of the autopersistence functions, *Book of short papers PhD Thesis in Statistics and Application,* vol.2.

De Luca G., Carfora A. (2010), A binary time series model with a long-memory structure, *Statistica & Applicazioni,* vol. VIII(2).

Quintano C., Castellano R., Rocca A., Carfora A. (2009), I sondaggi politico-elettorali agli inizi del III Millennio, caratteristiche e qualità statistiche dei dati, *Alfredo Guida Editore*.

Quintano C., Castellano R., Rocca A., Carfora A. (2009), I sondaggi statistici: spigolature sulla qualità delle indagini, *Rivista di Scienze dell'Amministrazione,* vol.2.

Working papers

Carfora A., Dongiovanni S., Marabucci A., Pisani S. (2020), The impact of domestic factors and spillover effects on EU countries VAT gap, *Argomenti di Discussione dell'Agenzia delle Entrate* 1/2020.

Carfora A., Marigliani M., Pisani S., Spingola A. (2016), Gli effetti dello split payment sulla compliance IVA, *Argomenti di Discussione dell'Agenzia delle Entrate* 1/2017.

Braiotta A., Carfora A., Pansini R.V., Pisani S. (2015), Tax Gap and Redistributive Aspects across Italy, *Argomenti di Discussione dell'Agenzia delle Entrate* 2/2015.

Conferences

Effetti dell'adozione dei servizi pagoPA sulla capacità di riscossione dei Comuni. XIX Conference ESPAnet. Italy, Sapienza University of Rome, 9-11 September 2026

Chair amd organizer of the: CO489 - Fiscal incentives in Italian residential sector: Long-term effectiveness and distributional effects at the CFE-CM Statistics 2025 (19th International Joint Conference on Computational and Financial Econometrics and Computational and Methodological Statistics)

The Dual Impact of Energy Efficiency and Rebound Effects on Energy Poverty: An Italian Case Study 3rd Italian Conference on Economic Statistics, 2025, Napoli (Chelli F.M. and Scandurra G.)

Chair amd organizer of the : CO489 - Complex statistical methods for energy poverty related issues at the CFE-CM Statistics 2024 (18th International Joint Conference on Computational and Financial Econometrics and Computational and Methodological Statistics).

Fiscal policies to speed up green energy transition and energy efficiency: The case of Italian bonuses (and superbonuses). XXXVI Conferenza SIEP 2024 (Scandurra G.)

The multifaced challenge to tackle energy poverty: outlook scenarios for EU countries. The 52nd Scientific Meeting of the Italian Statistical Society 2024. (Scandurra G.)

Tackling Energy Poverty after Covid-19 Pandemic. XXIII. Conferenza SIEP, 2021 (Scandurra G., Thomas A.)

Income Distribution and inequality: the distortive role of tax evasion, 6th Shadow Economy Conference Tax Evasion and Economic Inequality (Pansini R.V., Pisani S.)

The effects of the extension of the split payment on the VAT revenues: A counterfactual analysis, 6th Shadow Economy Conference Tax Evasion and Economic Inequality (Marigliani M., Pisani S., Spingola A.)

The new deal of U.S. environmental policy: Challenges or threat? EMCC-III: Econometric Models of Climate Change Conference (Pansini R.V., Scandurra G.)

The climate funds for energy sustainability: a counterfactual analysis, SIS2018: 49th Scientific Meeting of the Italian Statistical Society (Scandurra G.)

Tax compliance and the role of the consultant. Evidence from an Italian experience, 5th International Conference on "The Shadow Economy, Tax Evasion and Informal Labor" (D'Agosto E., Pisani S.)

The Effects of Split Payment on VAT Revenues: An Empirical Macroeconomic Counterfactual Analysis, XXVIII. Conferenza SIEP (Marigliani M., Pisani S., Spingola A.).

Tax Gap and Redistributive Aspects across Italy. IARIW 33rd General Conference (Braiotta A., Pansini R.V., Pisani S.).

The Italian election polls over time: An analysis of the quality and completeness of the methodological aspects. Il valore della statistica per le imprese e la società. Ricerche di opinione e di mercato (Quintano C., Rocca A).

Fitting and forecasting binary time series with long memory effects. Young Statisticians Meeting of the 58th ISI World Congress (De Luca G.).