

PERSONAL INFORMATION



Name VICCARO MAURO
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Nationality Italian
Date of birth 15-01-1986

POSITION

- **11/2022 – to date** **Associate Professor**, *University of Basilicata, Italy.*
Research activity: *Research and teaching activity in the field of Rural Economics and Appraisal*
- **12/2021 – to date** **Research Associate**, *Institute of Methodologies for Environmental Analysis - National Research Council of Italy (CNR-IMAA), Italy.*
Research activity: *Research activity in the field of Environmental economics*
- **11/2021 – to date** **Corresponding member**, *Italian Academy of Forest Sciences, Italy.*
Research activity: *Research activity in the field of Forest Economics and Appraisal*

EDUCATION AND TRAINING

- **01/2014 – 12/2016** **PhD in Agricultural, Forest and Food Sciences and Technology**, *University of Basilicata, Italy.*
Thesis: *Sam-based Models For The Impact Analysis Of Regional Policies On Growth, Poverty And Inequality*
Supervisor: *Prof. Mario Cozzi, Prof. Benedetto Rocchi*
Day of defence: *29 March 2017*
- **10/2015 – 03/2016** **Visiting researcher**, *Norwegian University of Science and Technology (NTNU), Norway.*
Research activity: *Calibration and application of a Computable General Equilibrium model for impact analysis of bioenergy sector in Italy.*
Supervisor: *Prof. Ruud Egging*
- **02/2015 – 03/2015** **Visiting researcher**, *Istituto Regionale Programmazione Economica della Toscana (IRPET), Italy.*
Research activity: *Realization of a Social Accounting Matrix (SAM) for Italy, year 2011.*
Supervisor: *Dott. Renato Paniccià*
- **10/2011 – 07/2013** **MS in Forest and Environmental Sciences (110 cum Laude)**, *University of Basilicata, Italy.*
Thesis: *A spatial model for the evaluation of agri-energy districts from Short Rotation Forestry fertigated with wastewater in Basilicata*
Supervisor: *Prof. Severino Romano, Dott. Mario Cozzi*
Day of defence: *24 July 2013*
- **10/2006 – 06/2011** **BS in Forest and Environmental Sciences (110 cum Laude)**, *University of Basilicata, Italy.*
Thesis: *Sustainable development and RES in Basilicata: spatial evaluation models for planning actions in the State property of Potenza province.*
Supervisor: *Prof. Severino Romano*
Day of defence: *29 June 2011*
- **04/2010 – 06/2010** **Training Internship**, *Town Hall of Potenza - Energy Office, Italy.*
Research activity: *Economic analysis for energy production by using residual biomass of the municipality forest.*
Supervisor: *Energy Manager Luigi D'Angelo*

RESEARCH EXPERIENCES

- **10/2019 – 10/2022** **Research fellow**, *University of Basilicata, Italy.*
Research activity: *Research and teaching activity in the field of Rural Economics and Appraisal*
- **08/2018 – 07/2019** **Postdoctoral fellow**, *University of Basilicata, Italy.*
Research activity: *Spatial decision support systems to evaluate the quality of life in rural areas.*
- **06/2017 – 06/2018** **Postdoctoral fellow**, *University of Basilicata, Italy.*
Research activity: *Decision support systems to promote agro-energy supply chains. The research was carried out in the framework of the project 'Smart Basilicata', approved by the Italian Ministry of Education, University and Research and funded with the Cohesion Fund 2007-2013 of the Basilicata Regional authority.*
- **01/2014 – 12/2016** **PhD researcher**, *University of Basilicata, Italy.*
Research activity: *SAM- based model for rural development*

TEACHING EXPERIENCES

- **2022 – to date** **Agri-food Economics and Policy**, *University of Basilicata, Italy.*
Course type: *University Course - Bachelor's degree in Food Technology*
- **2019 – to date** **Economics of quality and marketing in the agri-food system**, *University of Basilicata, Italy.*
Course type: *University Course - Master's degree in Food Science and Technology*
- **2020-2021** **Energy economics**, *University of Basilicata, Italy.*
Course type: *First level Master in Hydrocarbons and Reserves: Safety and environmental control in natural hydrocarbon production activities (IRIS)*
- **2018 - 2019** **Agricultural Economics and Policy**, *University of Basilicata, Italy.*
Course type: *University Course - Master's degree in Agricultural Science and Technology*
- **2018** **From feasibility study to economic analysis of energy projects**, *University of Basilicata, Italy.*
Course type: *Training Course – SMART Basilicata project*
- **2018** **Models to analyse and size energy supply basins and decision support systems**, *University of Basilicata, Italy.*
Course type: *Training Course – SMART Basilicata project*
- **2017** **The energy market: actors and development prospects**, *University of Basilicata, Italy.*
Course type: *Training Course – SMART Basilicata project*
- **2016 - 2017** **Economic, territorial and environmental planning**, *University of Basilicata, Italy.*
Course type: *University Course - Master's degree in Forest and Environmental Sciences*
Course held by *Prof. Mario Cozzi*
- **2013** **Elements of economic and environmental planning**, *Istituto Pilota srl, Italy.*
Course type: *Training Course – Expert in Integrated Territorial Analysis and Planning and Protection of Historic - Architectural Heritage*

SUPERVISING EXPERIENCES

- **2018 - 2019** **Master Thesis (supervisor)**, *Maria Consiglia D'Angelo, University of Basilicata, Italy.*
Thesis: *Food Waste and New Generations: an extension of the Theory of Planned Behaviour*
- **2018 - 2019** **Master Thesis (supervisor)**, *Francesco Beneventi, University of Basilicata, Italy.*
Thesis: *Conservation Agriculture and Agro-ecosystem Services: biophysical and economic effects on a regional scale*

- **2018 - 2019** **Master Thesis (supervisor)**, Gerardo Vaccaro, University of Basilicata, Italy.
Thesis: The truffle sector in Basilicata: potential and prospects
- **2016 - 2017** **Master Thesis (co-supervisor)**, Pierluigi Miglionico, University of Basilicata, Italy.
Thesis: European commitments on climate change: an economic analysis of new plants with native forest species for energy purposes
- **2016 - 2017** **Bachelor Thesis (co-supervisor)**, Rosario Astrella, University of Basilicata, Italy.
Thesis: Economic sustainability of energy plants for residual forest biomass: comparing energy technologies

RESEARCH PROJECT EXPERIENCES

- **2013 - to date** Participation in 13 research projects, among others:
 - **Sustainable water reuse practices improving safety in agriculture, food and environment (SAFE)**. University of Basilicata, funded by PRIMA (Partnership for Research and Innovation in the Mediterranean Area) - Call 2021
 - **Sharing knowledge to increase postharvest efficiency (SKIPE)**. University of Basilicata, funded by POR FESR Basilicata 2014-2020
 - **Evaluation of RES development potential in the bio-energy sector in the Basilicata region** – University of Basilicata, funded by FEEM - Fondazione Eni Enrico Mattei.
 - **BIOFEEDSTOCK, Development of integrated technological platforms for the exploitation of residual biomasses for the production of fuels and chemicals** - University of Basilicata, funded by PON 2014 – 2020.
 - **SMART Basilicata, Decision support systems to promote agro-energy supply chains** - University of Basilicata, funded by Cohesion Fund 2007-2013 of the Basilicata Regional authority

EDITORIAL EXPERIENCES

- **2020 - to date** **Section Editor** for the Aestimum journal, Firenze University Press.
- **2018 - 2019** **Guest editor** for the Natural Resources Research journal, Springer US.
Volume: Viccaro, M. & Caniani, D. (2019). Forest, Agriculture, and Environmental Protection as Path to Sustainable Development. Natural Resources Research, Volume 28, Issue 1 Supplement, August 2019.

REVIEW EXPERIENCES

- **2020 – to date**
 - Renewable Energy (Elsevier)
 - Journal of Environmental Management (Elsevier)
- **2019 – to date**
 - Aestimum (Firenze University Press)
 - Socio-Economic Planning Sciences (Elsevier)
- **2017 – to date**
 - Natural Resources Research (Springer)
 - Bio-based and Applied Economics (Firenze University Press)

PRIZES AND AWARDS

- **2017** **Prize for the best master thesis** - X Concorso nazionale “Studi e ricerche sulla Basilicata” per Tesi di laurea e di dottorato
- **2015** **Prize for the best paper “Territory section”**- "Sustainability of Well-being International Forum" (Florence Swif 2015 - 4/6 June 2015, Firenze)
- **2014** **3° Prize for the best thesis** - IX Edizione del Premio di laurea offerto a studenti disabili distinti per il loro lavoro di Tesi dal Fondo Memoriale Antonio e Luigi GOI Onlus

MEMBERSHIP

- **2020 – to date** - Centro Studi di Estimo e di Economia Territoriale – CeSET
- **2017 – to date** - Società Italiana di Economia Agraria - SIDEA
- European Association of Agricultural Economists - EAAE
- **2016 – to date** - Società Italiana degli Economisti - SIE
- Associazione Italiana di Scienze Regionali - AISRe
- **2015 – to date** - Associazione Italiana di Economia Agraria e Applicata - AIEAA

CONFERENCES

- **2022** - 11th AIEAA Conference “CAP, Farm to Fork and Green Deal: policy coherence, governance and future challenges”, 16-17 June 2022 Viterbo (Italy) (Program Committee)
- **2021** - 10th AIEAA Conference “Agriculture, Food and Global Value Chains: Issues, Methods and Challenges”, Rome 9-11 June 2021 (Speaker)
- 9th IAERE Annual Conference, 21-23 April 2021 (Online) (Speaker)
- **2020** - 9th AIEAA Online Conference “Mediterranean agriculture facing climate change: Challenges and policies”, 11-12 June 2020 (Speaker)
- **2019** - 174th EAAE Seminar “Economics of culture and food in evolving agri-food systems and rural areas”, Matera 10-12 October 2019 (Local Organizing Committee)
- **2018** - VENICE 2018 - 7th International Symposium on “Energy from Biomass and Waste”, Venezia 15-18 Ottobre 2018 (Speaker)
- **2017** - XV EAAE Congress “Towards Sustainable Agri-food Systems: Balancing Between Markets and Society”, Parma 28 Agosto - 1 settembre 2017. (Speaker)
- Primo Convegno Congiunto SIDEA (LIV convegno) - SIEA (XXV convegno) “Strategie cooperative e creazione del valore in una filiera alimentare sostenibile”, Bisceglie/Trani 13-16 settembre 2017. (Speaker)
- **2016** - XXXVII Conferenza scientifica annuale AISRe "Quali confini? Territori tra identità e integrazione internazionale", Ancona 20-22 Settembre 2016. (Speaker)
- "57ma Riunione Scientifica Annuale" della Società Italiana degli Economisti, Milano 20-22 Ottobre 2016 (Speaker)
- **2015** - FAO International online conference "The Economics of climate change mitigation options in the forest sector", Roma 6-27 Febbraio 2015. (Speaker)
- 4th AIEAA Conference "Innovation, productivity and growth: towards sustainable agri-food production", Ancona 11-12 Giugno 2015. (Speaker)
- 4th workshop in the KAPSARC Energy Workshop Series on Eastern Africa Natural Resource Developments "Macroeconomic Impacts of Natural Resource Development", Kampala (Uganda) 14-15 Settembre 2015. (Invited Speaker)
- **2014** - II International Congress of Silviculture "Designing the future of the forestry sector", Firenze 26-29 Novembre 2014. (Speaker)
- International Congress "Environmental Sustainability and Food Security", Potenza 17-19 Giugno 2014. (Speaker)

LANGUAGES

Italian	Native speaker
English	Advanced knowledge written and oral
French	Elementary knowledge written and oral

COMPUTER SKILLS

Operating systems	MacOS, Windows
Softwares	Microsoft Office, R software, AutoCAD, GIS softwares (ArcGis, IDRISI, Qgis), GAMS, Matlab

PUBLICATIONS

Brief introduction

Author of more than 48 publications among papers, book chapters, report and conference proceedings.

From 2017 to 2021, he joined as lead author in UN Environment Programme's GEO-6 for Youth process for the publication of the GEO-6 for Youth report of the Sixth Global Environment Outlook (GEO-6)

Following the list of papers in peer review journals and book chapters indexed in Scopus database.

Bibliometric indicators (Scopus) (Jan 2023)

- Documents: 33
- Citations: 267
- H index: 11

• Papers in peer review journal

1. Coppola, A., Cozzi, M., Romano, S., & **Viccaro, M.** (2022). CSR profiles and innovation in Italian agri-food firms. *Journal of Cleaner Production*, 133625. <https://doi.org/10.1016/j.jclepro.2022.133625>
2. **Viccaro, M.**, Caniani D., Masi S., Romano, S., & Cozzi, M. (2022). Biofuels or not biofuels? The "Nexus Thinking" in land suitability analysis for energy crops. *Renewable Energy*, 185:1050-1064. <https://doi.org/10.1016/j.renene.2022.02.008>
3. Cozzi, M., Prete, C., **Viccaro, M.**, Sijtsma, F., Veneri, P., & Romano, S. (2022). Understanding the Role of Nature in Urban-Rural Linkages: Identifying the Potential Role of Rural Nature-Based Attractive Clusters That Serve Human Well-Being. *Sustainability*, 14(19):11856. <https://doi.org/10.3390/su141911856>
4. Pergola, M. T., Saulino, L., Castellaneta, M., Rita, A., Pecora, G., Cozzi, M., ..., **Viccaro M.** & Ripullone, F. (2022). Towards sustainable management of forest residues in the southern Apennine Mediterranean mountain forests: a scenario-based approach. *Annals of Forest Science*, 79(1), 1-13. <https://doi.org/10.1186/s13595-022-01128-w>
5. **Viccaro, M.**, Romano, S., Coppola, A., Vaccaro, G., Riccioli, F., & Cozzi, M. (2021). The hidden value of non-timber forest products: income contribution of the Basilicata wild truffle. *Aestimum*, 79, 25-42. <https://doi.org/10.36253/aestim-12228>
6. **Viccaro, M.**, Romano, S., Prete, C., & Cozzi, M. (2021). Rural planning? An integrated dynamic model for assessing quality of life at a local scale. *Land Use Policy*, 111, 105742. <https://doi.org/10.1016/j.landusepol.2021.105742>.
7. Iacono, R., & **Viccaro, M.** (2021). The Basilicata Wealth Fund. *Scienze Regionali*, 20(Speciale), 577-594. <https://doi.org/10.14650/98926>
8. Fagarazzi, C., Fratini, R., Montanino, M., **Viccaro, M.**, Cozzi, M., Romano, S., & Riccioli, F. (2021). The economic value of fire damages in Tuscan agroforestry areas. *iForest-Biogeosciences and Forestry*, 14(1), 41. <https://doi.org/10.3832/ifor3607-013>
9. Tortorella, M. M., Di Leo, S., Cosmi, C., Fortes, P., **Viccaro, M.**, Cozzi, M., ... & Romano, S. (2020). A Methodological Integrated Approach to Analyse Climate Change Effects in Agri-Food Sector: The TIMES Water-Energy-Food Module. *International Journal of Environmental Research and Public Health*, 17(21), 7703. <https://doi.org/10.3390/ijerph17217703>
10. Riccioli, F., Fratini, R., Fagarazzi, C., Cozzi, M., **Viccaro, M.**, Romano, S., ... & Tattoni, C. (2020). Mapping the recreational value of coppices' management systems in Tuscany. *Sustainability*, 12(19), 8039. <https://doi.org/10.3390/su12198039>
11. Coppola, A., Ianuario, S., Romano, S., & **Viccaro, M.** (2020). Corporate social responsibility in agri-food firms: the relationship between CSR actions and firm's performance. *AIMS Environmental Science*, 7(6), 542-558. <https://doi.org/10.3934/environsci.2020034>
12. **Viccaro M.**, Rocchi, B., Cozzi, M., & Romano, S. (2020). Natural resources exploitation and social sustainability: an ex-ante regional policy simulation using EU-SILC data. *International Journal of Sustainable Development*, 23(1-2), 103-127. <https://doi.org/10.1504/IJSD.2020.112153>

13. Cozzi, M., Prete, C., **Viccaro, M.**, Riccioli, F., Fagarazzi, C., & Romano, S. (2020). Towards sustainable and inclusive communities: an integrated approach to assess sustainability in rural areas. *Aestimum*, 81-102. <https://doi.org/10.13128/aestim-8206>
14. **Viccaro, M.**, Cozzi, M., Fanelli, L., & Romano, S. (2019). Spatial modelling approach to evaluate the economic impacts of climate change on forests at a local scale. *Ecological Indicators*, 106, 105523. <https://doi.org/10.1016/J.ECOLIND.2019.105523>
15. **Viccaro, M.**, & Caniani, D. (2019). Forest, Agriculture, and Environmental Protection as Path to Sustainable Development. *Natural Resources Research*, 28(S1), 1–4. <https://doi.org/10.1007/s11053-019-09497-2>
16. Cozzi, M., Prete, C., **Viccaro, M.**, & Romano, S. (2019). Impacts of Wildlife on Agriculture: A Spatial-Based Analysis and Economic Assessment for Reducing Damage. *Natural Resources Research*, 28(S1), 15–29. <https://doi.org/10.1007/s11053-019-09469-6>
17. Caniani, D., **Viccaro, M.**, Schiavone, C., Lo Ponte, M. C., Masi, S., Mancini, I. M., Caivano, M., & Cozzi, M. (2019). The Balance Between Capturing Phosphorus from Manure and Wastewater and the Demand for Crop Fertilizer in Italy. *Natural Resources Research*, 28(S1), 77–92. <https://doi.org/10.1007/s11053-018-9426-z>
18. **Viccaro, M.**, Cozzi, M., Rocchi, B., & Romano, S. (2019). Conservation agriculture to promote inland biofuel production in Italy: An economic assessment of rapeseed straight vegetable oil as a self-supply agricultural biofuel. *Journal of Cleaner Production*, 217, 153–161. <https://doi.org/10.1016/j.jclepro.2019.01.251>
19. **Viccaro M.**, Rocchi, B., Cozzi, M., & Romano, S. (2018). SAM multipliers and subsystems: Structural analysis of the Basilicata's agri-food sector. *Bio-Based and Applied Economics*, 7(1), 19–38. <https://doi.org/10.13128/BAE-24046>
20. **Viccaro, M.**, Cozzi, M., Caniani, D., Masi, S., Mancini, I. M., Caivano, M., & Romano, S. (2017). Wastewater reuse: An economic perspective to identify suitable areas for poplar vegetation filter systems for energy production. *Sustainability*, 9(12). <https://doi.org/10.3390/su9122161>
21. Vastola, A., Zdruli, P., D'Amico, M., Pappalardo, G., **Viccaro, M.**, Di Napoli, F., Cozzi, M., & Romano, S. (2017). A comparative multidimensional evaluation of conservation agriculture systems: A case study from a Mediterranean area of Southern Italy. *Land Use Policy*, 68, 326–333. <https://doi.org/10.1016/j.landusepol.2017.07.034>
22. Cozzi, M., **Viccaro, M.**, Di Napoli, F., Fagarazzi, C., Tirinnanzi, A., & Romano, S. (2015). A spatial analysis model to assess the feasibility of short rotation forestry fertigated with urban wastewater: Basilicata region case study. *Agricultural Water Management*, 159, 185–196. <https://doi.org/10.1016/j.agwat.2015.06.010>
23. Cozzi, M., Persiani, G., **Viccaro, M.**, Riccioli, F., Fagarazzi, C., & Romano, S. (2015). Approcci innovativi per la classificazione delle aree rurali: dagli indirizzi europei all'applicazione locale. *Aestimum*, 67, 97–110. <https://doi.org/10.13128/Aestimum-17941>
24. Fagarazzi, C., Riccioli, F., Cozzi, M., Romano, S., **Viccaro, M.**, El Asmar, T., El Asmar, J. P., & Fratini, R. (2015). SWOT-AHP dynamic approach to define medium term strategies to develop forest quality chain and forest energy chain in Tuscany. *Rivista Di Studi Sulla Sostenibilità*, 2, 113–130. <https://doi.org/10.3280/RISS2015-00201>
25. Cozzi, M., Di Napoli, F., **Viccaro, M.**, Fagarazzi, C., & Romano, S. (2014). Ordered weight averaging multicriteria procedure and cost-effectiveness analysis for short rotation forestry in the Basilicata Region, Italy. *International Journal of Global Energy Issues*, 37(5–6), 282–303. <https://doi.org/10.1504/IJGEI.2014.067671>
26. Romano, S., Cozzi, M., Viccaro, M., & di Napoli, F. (2013). The green economy for sustainable development: a spatial multi-criteria analysis-ordered weighted averaging approach in the siting process for short rotation forestry in the Basilicata Region, Italy. *Italian Journal of Agronomy*, e21-e21. <https://doi.org/10.4081/ija.2013.e21>
27. Cozzi, M., Di Napoli, F., **Viccaro, M.**, & Romano, S. (2013). Use of forest residues for building forest biomass supply chains: Technical and economic analysis of the production process. *Forests*, 4(4), 1121–1140. <https://doi.org/10.3390/f4041121>
28. Romano, S., Cozzi, M., Di Napoli, F., & **Viccaro, M.** (2013). Building agro-energy supply chains in the basilicata region: Technical and economic evaluation of interchangeability between fossil and renewable energy sources. *Energies*, 6(10), 5259–5282. <https://doi.org/10.3390/en6105259>

• Book chapters

1. **Viccaro M.**, Cozzi M., Vastola A., Romano S. (2018) Promoting Small-Scale Biofuel Production: A Qualitative GIS-OWA Methodology for Land Suitability Analysis of Winter Rapeseed. In: Berbel J., Bournaris T., Manos B., Matsatsinis N., Viaggi D. (eds) *Multicriteria Analysis in Agriculture*. Multiple Criteria Decision Making. Springer, Cham
2. **Viccaro M.**, Rocchi B., Cozzi M., Romano S. (2015). The sustainability of non-renewable resources use at regional level: a case study on allocation of oil royalties. In: A. Vastola (ed.), *The Sustainability of Agro-Food and Natural Resource Systems in the Mediterranean Basin*, Springer book.
3. Romano S., Fanelli L., **Viccaro M.**, Di Napoli F., Cozzi M. (2015). The effects of climate change on the multifunctional role of Basilicata's forests: the effects induced on yield and CO2 absorption. In: A. Vastola (ed.), *The Sustainability of Agro-Food and Natural Resource Systems in the Mediterranean Basin*, Springer book.
4. Cozzi M., Romano S., **Viccaro M.**, Prete C., Persiani G. (2015). Wildlife-agriculture interactions, spatial analysis and trade-off between environmental sustainability and risk of economic damage. In: A. Vastola (ed.), *The Sustainability of Agro-Food and Natural Resource Systems in the Mediterranean Basin*, Springer book.