

## Anna Irene DE LUCA

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### Websites:

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Current research interests include agricultural economics and rural appraisal with specific topics regarding circular economy, sustainability assessment of agri-food production processes, life cycle methodologies - life cycle assessment, life cycle costing, social life cycle assessment - data envelopment analysis, q methodology, decision support systems, multicriteria analysis, rural development, alternative food networks.

### Academic career and work experience in research activities

- 2020 - 2029** National Scientific Qualification as Full Professor of Agricultural Economics and Rural Appraisal (SDS AGR/01)
- 2020** Associate Professor of Agricultural Economics and Rural Appraisal (SDS AGR/01), Mediterranean University of Reggio Calabria, Department of Agriculture (AGRARIA).
- 2017-2020** "Tenure-track" Senior Researcher (RTDb) in Agricultural Economics and Rural Appraisal (SDS AGR/01), Mediterranean University of Reggio Calabria, Department of Agriculture (AGRARIA).
- 2013 - 2017** "Non-tenured" Junior Researcher (RTDa) in Agricultural Economics and Rural Appraisal (SDS AGR/01), Mediterranean University of Reggio Calabria, Department of Agriculture (AGRARIA).
- 2009 - 2013** Research Fellow in Agricultural Economics and Rural Appraisal (SDS AGR/01), Mediterranean University of Reggio Calabria, Department of Agriculture (AGRARIA).
- 2008 - 2009** Research Traineeship within the "High education program" of Calabria Region, Department 11 in agreement with Mediterranean University of Reggio Calabria.
- 2003 - 2008** Occasional employment contracts for collaboration in research activities, Department of Agro-Forestry and Environmental Sciences and Technologies (STAfA) - Mediterranean University of Reggio Calabria (Italy), Department of Agricultural Economics and Policy - University of Studies of Naples "Federico II" (Italy).

### Education

- 2009** Advanced Master degree in "Government of regions and local entities", Mediterranean University of Reggio Calabria (Italy) - Faculty of Law.
- 2007** PhD in Agricultural Economics and Policy, University of Palermo.
- 2005** Participation to European Master (M.Sc.) "Agricultural Economics and Agribusiness", Wageningen Agricultural University (NL). Modules attended: Rural Economic Analysis (dr. L.H.G. Slangen, dr. C. Gardebroek, dr. R. Schipper); Rural Development Projects and Programmes (dr. P.A. de Vries; dr. R. Ruben); Quantitative Research Methodology and Statistics (dr. I. van der Lans); Agricultural and Rural Policy Analysis (dr. A. Burrel, dr. J. Peerlings); Understanding Rural Development: Theories, Practices and Methodologies (dr. H. Wiskerke); Econometrics (F.F. Kuipers, C. Gardebroek); Decision Science I (dr. T. Hendriks).

- 2004** Participation to short-course in “Econometric models with dependent discrete variables: theory, practices, application to marketing and natural resources economics and transports”, prof. Riccardo Scarpa (University of York, UK), organized by Center for training in Economics and Politics of Rural Development - Portici, University of Naples “Federico II” (Italy).
- 2004** Advanced Master degree in Agricultural Economics and Policy, Centre for Advanced Training and Research in Agricultural Economics, Portici, University of Naples “Federico II” (Italy).
- 2002** Degree in Agricultural Sciences and Technologies *summa cum laude* (110 e lode), Mediterranean University of Reggio Calabria (Italy).

#### **Academic Appointments**

- From 2019** Member of the Academic Board of the PhD in “Law and Economics”, Department of Law, Economics and Human Sciences (DiGiES), Mediterranean University of Reggio Calabria.
- From 2015** Member of the Joint students-professors Commission in the Quality Assurance process of the Department of Law, Economics and Human Sciences (DiGiES), Mediterranean University of Reggio Calabria.
- From 2015** Member of the Commission for Quality Assurance and Research of the Department of Agriculture (AGRARIA), Mediterranean University of Reggio Calabria.
- From 2016** Member of the Forestry and Environmental Sciences Master's Degree Council, Department of Agriculture (AGRARIA), Mediterranean University of Reggio Calabria.
- From 2015** Member of the Council of the Master's Degree Course in Economics, Department of Law, Economics and Human Sciences (DiGiES), Mediterranean University of Reggio Calabria.
- From 2013** Member of the Council of the Department of Agriculture (AGRARIA), Mediterranean University of Reggio Calabria.

#### **Editorial Appointments**

- From 2021** Member of Scientific Advisory Board of *Food Economy (Economia agro-alimentare)* (ISSN 1126-1668), <https://www.economiaagroalimentare.it/home/editorial-board/>
- From 2020** Member of Editorial Board of *Geography* (ISSN 2673-7086), MDPI, Basel Switzerland, <https://www.mdpi.com/journal/geographies/editors>
- From 2020** Book reviewing activities for Elsevier (new acquisitions for Environmental and Sustainability Science)
- From 2019** Member of Editorial Board of *Sustainability* (ISSN 2071-1050), MDPI, Basel Switzerland, [https://www.mdpi.com/journal/sustainability/sectioneditors/agriculture\\_food\\_and\\_wildlifes](https://www.mdpi.com/journal/sustainability/sectioneditors/agriculture_food_and_wildlifes)
- 2019** Guest Editor for the Special Issue “Life Cycle Sustainability Assessment within the Theoretical Framework of Circular Economy: Methodological Challenges and Epistemological Implications for Agro-Food Sector”, *Sustainability* (ISSN 2071-1050), MDPI, Basel Switzerland.
- 2017** Guest Editor for the Special Issue “Innovative Farm Management to Enhance Agricultural Sustainability”, *International Journal of Agronomy* (ISSN 1687-8159), Hindawi Publishing.
- 2017** Member of Editorial Board of *International Journal of Agricultural Economics* (ISSN 2575-3851), Science Publishing Group.
- From 2014** Reviewing activities for the following scientific journals: Journal of Cleaner Production (Elsevier); Agricultural Systems (Elsevier); Sustainable Production and Consumption (Elsevier); International Journal of Life Cycle Assessment (Springer); Journal of Environmental Management (Elsevier); Agricultural and Food Economics (Springer); Journal of Wine Research (Taylor&Francis); Sustainability (MDPI); AgriregioniEuropa (ISSN 1828-5880).

**Membership** Agricultural Economics Society (AES); European Association of Agricultural Economists (EAAE); LCA Italian Network; Italian Society of Agricultural Economics (SIDEA), Register of Expert Peer Reviewers for Italian Scientific Evaluation (REPRISE)

#### **Academic Courses taught**

- AY 2020/2021** *Economic evaluation of forest and environmental goods and services* (54 hours), Master degree in Forestry Sciences, Department of Agriculture (AGRARIA), Mediterranean University

of Reggio Calabria; *Management and enhancement of Mediterranean gastronomy* (54 hours), Master degree in Food Sciences and Technologies, Department of Agriculture (AGRARIA), Mediterranean University of Reggio Calabria.

**AAYY 2019/2020, 2017/2018, 2016/2017** *Economics and Environmental appraisal* (54 hours), Master degree in Forestry Sciences, Department of Agriculture (AGRARIA), Mediterranean University of Reggio Calabria;

**AAYY 2018/2019, 2017/2018, 2016/2017, 2015/2016** *Economics and Management of Agri-food Enterprises* (54 hours), Master degree in Economics, Department of Law, Economics and Human Sciences (DiGiES), Mediterranean University of Reggio Calabria.

#### **Scientific coordination or responsibility within international or national research project**

- 2019-2023** Scientific Responsible of WP5 “Socio Economic and Life Cycle Assessment” within the international project “*SUSTAINOLIVE - Novel approaches to promote the SUSTAINability of OLIVE groves in the Mediterranean*”, funded by PRIMA Foundation and with the involvement of University of Jaèn (Spain), University of Abdelmalek Essaâdi, Tetouan (Morocco), Alma Mater Studiorum - University of Bologna (Italy), University of Granada (Spain), University of Évora (Portugal), Universidad Pablo de Olavide (Spain), University of Parma (Italy), Hellenic Agricultural Organization “DEMETER” (Greece), Andalusian Institute of Agricultural, Fisheries, Agrifood and Organic Production Research and Training (Spain).
- 2019-2022** Scientific Responsible of WP4 “Impact Assessment” within the PRIN project “*Driving the Italian Agri-Food System into a Circular Economy Model*”, funded by MIUR and with the involvement the Universities of Naples, Catania and Bari.
- 2017-2020** Scientific Responsible of Task 5.1. “Life Cycle analysis to sustainability assessment of WP2 technological innovations in EVOO production processes”, within the project “*Sustainability Olive Oil System*” S-O-S, funded by Cariplo foundation, call “Ager PROJECT - Second Edition. Partnership with the Universities of Bari “Aldo Moro”, Milano, Parma, Sassari, Teramo, Reggio Calabria.
- 2013-2016** Scientific Coordinator of the research program FIRB 2012 entitled “*Multidisciplinary and Innovative Methodologies for the sustainable management of agricultural systems*” (Code: RBFR12B2K4, Intervention n. 2 – Directorial decree of 12 January 2012 n. 3/ric; funded with Directorial decree of 21 November 2012 n. 789; Score obtained 122/130, Total cost: 926.965 €; Granted Fund: 744.005 €. Partnership with the Universities of Sassari, Bologna, Catania, Reggio Calabria.

**Indexed publications (Latest 4 years)** - Overall impact measured by synthetic bibliometric indicators (SCOPUS basis): H-Index: 15; Documents: 44; Total Citations: 634.

- 1 Falcone, G., Stillitano, T., De Luca, A.I., Di Vita, G., Iofrida, N., Strano, A., Gulisano, G., Pecorino, B., D'Amico, M. Energetic and economic analyses for agricultural management models: The calabria PGI clementine case study (2020) *Energies*, 13 (5), art. no. 1289. DOI: 10.3390/en13051289
- 2 Falcone, G., Iofrida, N., Stillitano, T., De Luca, A.I. Impacts of food and diets' life cycle: A brief review (2020) *Current Opinion in Environmental Science and Health*, 13, pp. 75-79. DOI: 10.1016/j.coesh.2019.12.002
- 3 Bernardi, B., Falcone, G., Stillitano, T., Benalia, S., Bacenetti, J., De Luca, A.I. Harvesting system sustainability in Mediterranean olive cultivation: Other principal cultivar (2020) *Science of the Total Environment*, art. no. 142508. DOI: 10.1016/j.scitotenv.2020.142508
- 4 Stillitano, T., Falcone, G., De Luca, A.I., Piga, A., Conte, P., Strano, A., Gulisano, G. Innovative technologies in evo oil extraction: An economic and environmental impact analysis (2019) *Rivista Italiana delle Sostanze Grasse*, 96 (4), pp. 223-230.
- 5 Stillitano, T., Falcone, G., De Luca, A.I., Piga, A., Conte, P., Strano, A., Gulisano, G. A life cycle perspective to assess the environmental and economic impacts of innovative technologies in extra virgin olive oil extraction (2019) *Foods*, 8 (6), art. no. 209. DOI: 10.3390/foods8060209

- 6 Guarino, F., Falcone, G., Stillitano, T., De Luca, A.I., Gulisano, G., Mistretta, M., Strano, A. Life cycle assessment of olive oil: A case study in southern Italy (2019) *Journal of Environmental Management*, 238, pp. 396-407. DOI: 10.1016/j.jenvman.2019.03.006
- 7 Iofrida, N., De Luca, A.I., Silveri, F., Falcone, G., Stillitano, T., Gulisano, G., Strano, A. Psychosocial risk factors' impact pathway for social life cycle assessment: an application to citrus life cycles in South Italy (2019) *International Journal of Life Cycle Assessment*, 24 (4), pp. 767-780. DOI: 10.1007/s11367-018-1482-4
- 8 Stillitano, T., Falcone, G., Nicolò, B.F., Di Girolamo, C., Gulisano, G., De Luca, A.I. Technical efficiency assessment of intensive and traditional olive farms in Southern Italy (2019) *Agris On-line Papers in Economics and Informatics*, 11 (2), pp. 81-93. DOI: 10.7160/aol.2019.110208
- 9 Falcone, G., Stillitano, T., Montemurro, F., De Luca, A.I., Gulisano, G., Strano, A. Environmental and economic assessment of sustainability in mediterranean wheat production (2019) *Agronomy Research*, 17 (1), pp. 60-76. DOI: 10.15159/AR.19.011
- 10 Bernardi, B., Falcone, G., Stillitano, T., Benalia, S., Strano, A., Bacenetti, J., De Luca, A.I. Harvesting system sustainability in Mediterranean olive cultivation (2018) *Science of the Total Environment*, 625, pp. 1446-1458. DOI: 10.1016/j.scitotenv.2018.01.005
- 11 Stillitano, T., Falcone, G., De Luca, A.I., Spada, E., Gulisano, G., Strano, A. Long-term feasibility of Mediterranean olive production systems (2018) *Acta Horticulturae*, 1199, pp. 203-208. DOI: 10.17660/ActaHortic.2018.1199.33
- 12 Iofrida, N., De Luca, A.I., Gulisano, G., Strano, A. An application of Q-methodology to Mediterranean olive production – stakeholders' understanding of sustainability issues (2018) *Agricultural Systems*, 162, pp. 46-55. DOI: 10.1016/j.agsy.2018.01.020
- 13 De Luca, A.I., Iofrida, N., Falcone, G., Stillitano, T., Gulisano, G. Olive growing scenarios of soil management: Integrating environmental, economic and social indicators from a life-cycle perspective (2018) *Acta Horticulturae*, 1199, pp. 209-214. DOI: 10.17660/ActaHortic.2018.1199.34
- 14 Iofrida, N., De Luca, A.I., Strano, A., Gulisano, G. Can social research paradigms justify the diversity of approaches to social life cycle assessment? (2018) *International Journal of Life Cycle Assessment*, 23 (3), pp. 464-480. DOI: 10.1007/s11367-016-1206-6
- 15 Iofrida, N., Strano, A., Gulisano, G., De Luca, A.I. Why social life cycle assessment is struggling in development? (2018) *International Journal of Life Cycle Assessment*, 23 (2), pp. 201-203. DOI: 10.1007/s11367-017-1381-0
- 16 De Luca, A.I., Falcone, G., Stillitano, T., Iofrida, N., Strano, A., Gulisano, G. Evaluation of sustainable innovations in olive growing systems: A Life Cycle Sustainability Assessment case study in southern Italy (2018) *Journal of Cleaner Production*, 171, pp. 1187-1202. DOI: 10.1016/j.jclepro.2017.10.119
- 17 De Luca, A.I., Iofrida, N., Gulisano, G., Strano, A. Toward an evaluation model for transnational cooperation activities in rural areas: A case study within an EU LEADER project (2018) *Bulletin of Geography*, 42 (42), pp. 19-45. DOI: 10.2478/bog-2018-0029
- 18 Feschet, P., Iofrida, N., De Luca, A.I., Silveri, F., Strano, A. What are the sustainability principles guiding social life cycle assessment studies? (2018) *International Journal of Sustainable Development*, 21 (1-4), pp. 36-53. DOI: 10.1504/IJSD.2018.100824
- 19 Di Vita, G., Stillitano, T., Falcone, G., De Luca, A.I., D'Amico, M., Strano, A., Gulisano, G. Can sustainability match quality citrus fruit growing production? An energy and economic balance of agricultural management models for 'PGI clementine of calabria' (2018) *Agronomy Research*, 16 (5), pp. 1986-2004. DOI: 10.15159/AR.18.187
- 20 De Luca, A.I., Stillitano, T., Falcone, G., Squeo, G., Caponio, F., Strano, A., Gulisano, G. Economic and environmental assessment of extra virgin olive oil processing innovations (2018) *Chemical Engineering Transactions*, 67, pp. 133-138. DOI: 10.3303/CET1867023
- 21 Strano, A., Falcone, G., Nicolò, B.F., Stillitano, T., De Luca, A.I., Nesci, F.S., Gulisano, G. Eco-profiles and economic performances of a high-value fruit crop in southern Italy: a case study of bergamot (*Citrus bergamia* Risso) (2017) *Agroecology and Sustainable Food Systems*, 41 (9-10), pp. 1124-1145. DOI: 10.1080/21683565.2017.1357064
- 22 De Luca, A.I., Iofrida, N., Leskinen, P., Stillitano, T., Falcone, G., Strano, A., Gulisano, G. Life cycle tools combined with multi-criteria and participatory methods for agricultural sustainability: Insights from a

- systematic and critical review (2017) *Science of the Total Environment*, 595, pp. 352-370. DOI: 10.1016/j.scitotenv.2017.03.284
- 23 Stillitano, T., De Luca, A.I., Iofrida, N., Falcone, G., Spada, E., Gulisano, G. Economic analysis of olive oil production systems in southern Italy (2017) *Quality - Access to Success*, 18 (157), pp. 107-112.
  - 24 Nicolò, B.F., De Luca, A.I., Stillitano, T., Iofrida, N., Falcone, G., Gulisano, G. Environmental and economic sustainability assessment of navel oranges from the cultivation to the packinghouse according to environmental product declarations system (2017) *Quality - Access to Success*, 18 (158), pp. 108-112.
  - 25 Bernardi, B., Tous, J., Benalia, S., Abenavoli, L.M., Zimbalatti, G., Stillitano, T., De Luca, A.I. The assessment of hazelnut mechanical harvesting productivity (2017) *Agronomy Research*, 15 (4), pp. 1491-1497. DOI: 10.15159/AR.17.042
  - 26 Stillitano, T., Falcone, G., Spada, E., De Luca, A.I., Grillone, N., Strano, A., Gulisano, G. An economic sustainability assessment of "Fichi di Cosenza" PDO production compared with other profitable permanent crops (2017) *Acta Horticulturae*, 2017 (1173), pp. 395-400. DOI: 10.17660/ActaHortic.2017.1173.68
  - 27 Falcone, G., De Luca, A.I., Stillitano, T., Iofrida, N., Strano, A., Piscopo, A., Branca, M.L., Gulisano, G. Shelf life extension to reduce food losses: The case of Mozzarella Cheese (2017) *Chemical Engineering Transactions*, 57, pp. 1849-1854. DOI: 10.3303/CET1757309
  - 28 Pellicanò, A., De Luca, A.I. Dynamics, motivations and barriers in internationalisation processes of wineries in Calabria (2016) *Journal of Wine Research*, 27 (4), pp. 257-283. DOI: 10.1080/09571264.2016.1204274
  - 29 Falcone, G., De Luca, A.I., Stillitano, T., Strano, A., Romeo, G., Gulisano, G. Assessment of environmental and economic impacts of vine-growing combining life cycle assessment, life cycle costing and multicriterial analysis (2016) *Sustainability (Switzerland)*, 8 (8), art. no. 793. DOI: 10.3390/su8080793
  - 30 De Luca, A.I., Stillitano, T., Franco, F.A., Gulisano, G. Convention theory and the assessment of socio-economic sustainability of alternative food networks in Calabria (South Italy). (2016) *Quality - Access to Success*, 17 (151), pp. 85-91.
  - 31 Stillitano, T., De Luca, A.I., Falcone, G., Spada, E., Gulisano, G., Strano, A. Economic profitability assessment of mediterranean olive growing systems (2016) *Bulgarian Journal of Agricultural Science*, 22 (4), pp. 517-526.
  - 32 Bernardi, B., Benalia, S., Fazari, A., Zimbalatti, G., Stillitano, T., De Luca, A.I. Mechanical harvesting in traditional olive orchards: Oli-picker case study (2016) *Agronomy Research*, 14 (3), pp. 683-688.

Reggio Calabria (Italy), November 2020

Signature

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