

PERSONAL INFORMATION

Alessia Donato



 [Redacted]
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 Researchgate: [Redacted]
 Pablon: [Redacted]
 Scopus: [Redacted]
 Academia: [Redacted]
 ORCID: [Redacted]

Sex Female [Redacted]

POSITION

PhD in Economics, Management and Statistics
Civil Engineer

WORK EXPERIENCE

- 2018-2022 **Research Activities and Scientific Collaboration**
 Department of Economics, University of Messina, Italy

Business or sector Research group on the analysis of radical and breakthrough inventions, knowledge recombination, technological and scientific diversification in firm's innovation activity, firm's patent portfolio
- 2019-2021 **Research Activities and Scientific Collaboration**
 Department of Law, Economics, Management and Quantitative Methods (D.E.M.M.), University of Sannio, Benevento, Italy.

Business or sector Research group **SOCO-DYSES** on qualitative and quantitative modelling of social and economic-business fields, applications of Decision Theory in environmental sustainability, risk management approach, sustainable development goals
- 2015-2021 **Research Activities and Scientific Collaboration**
 Department of Economics, University of Messina

Business or sector Research group on applications of Game Theory, Coopetition and Coopetitive Games to Industrial Organization, Management, Green Economy
- 2013-2017 **Research Activities and Scientific Collaboration**
 Department of Mathematics, University of Messina

Business or sector Research group on Payoff spaces in normal form games, Geometric and Analytic representation and software implementation, with applications

EDUCATION AND TRAINING

- 2017 - 2020 **PhD in "Economics, Management and Statistics" (XXXIII Cycle)**
 Department of Economics, University of Messina, Italy

- PhD Thesis in **Economics and Business Management: Knowledge recombination, external collaborations and firms' innovative capabilities.**

9/01/2014 **State Examination to perform the Engineer Profession**

Department D.I.C.I.E.A.M.A., University of Messina, Italy

- Civil and environmental section

2011-2013 **Master Degree in Civil Engineering (Infrastructure and defense of the territory)**

Department of Engineering, University of Messina, Italy

- Thesis in **Superstructures of roads and airports: A Back-analysis model for the evaluation of pavement layer moduli using genetic algorithms.** Grade: **110/110 cum laude.**

2007-2011 **First Degree in Civil Engineering**

Department of Engineering, University of Messina, Italy

- Thesis in **Road design: Flexibility as advanced methodology for road design.** Grade: **110/110**

2002-2007 **Classic high-school degree**

Liceo Classico F. Maurolico, Messina, Italy

- Thesis on **Relativism.** Grade: **98/100**

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	B2
CEFR					
Spanish	C1	C1	B2	B2	B2
CEFR					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills ▪ good communication skills gained through the seminar and teaching activity

Organisational / managerial skills ▪ leadership of group projects during the university courses

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Independent user	Independent user	Basic user	Proficient user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Other software competences:

- Microsoft Office (word processor, spread sheet, presentation software)
- Statistical software: **Stata, R, aML**
- Programming: **Matlab, Mathematica, Excel**
- Technical drawing: **AutoCAD, ArchiCAD**
- Bibliometric analysis: **VOSviewer**
- Patent Search: **QPat, EPO**
- Editorial software: **LaTeX**
- Road Design: **Civil Design, KENPAVE**
- Hydraulic protection of the territory: **HEC-RAS**
- Anti-seismic design (push over) and structural analysis: **SAP, CDS**
- Bridge design: **ASCAD**

Other skills Ability to interact and to be part of a group acquired during the activity:

- competitive volleyball player
- contralto at the a cappella choir "I Mirabili"

Driving licence B

ADDITIONAL INFORMATION

Publications (38) Papers published in International Journals (23):

- '23. A. Donato, D. Carfi. Using Genetic Algorithms to Improve Airport Pavement Structural Condition Assessment: Code Development and Case Study, *Information* 2023, vol.14, issue 5: 286. ISSN: 2078-2489. Special Issue: Machine Intelligence in Interdisciplinary Areas. IF: 3.1 <https://www.mdpi.com/2078-2489/14/5/286> ; <https://doi.org/10.3390/info14050286>
- '22. D. Carfi, A. Donato. Plastic-Pollution Reduction and Bio-Resources Preservation Using Green-Packaging Game Coopetition. *Mathematics* 2022, vol.10, issue 23: 4553. ISSN: 2227-7390. Special Issue: Mathematical Methods of Economics and Finance. IF: 2.592. <https://www.mdpi.com/2227-7390/10/23/4553> ; <https://doi.org/10.3390/math10234553>
- '22. F. P. Appio, D. Baglieri, F. Cesaroni, L. Spicuzza, A. Donato. Patent Design Strategies: Empirical Evidence from European Patents. *Technological Forecasting and Social Change*, 181: 121776. DOI: 10.1016/j.techfore.2022.121776
- '21. A. Donato. The search of new knowledge in the firm's innovation process: a literature review. *Journal of Mathematical Economics and Finance*, vol. 7, issue 2(13), pp.17-37. ISSN: 2458-0813. ASERS Publishing. doi: 10.14505/jmef.v7.2(13).02
- '21. D. Carfi, A. Donato. Factory Farming and Ocean Degradation: Coopetitive Strategies for the Environment. *Journal of Mathematical Economics and Finance*, vol. 7, issue 1(12), pp.37-51. ISSN: 2458-0813. ASERS Publishing. doi: 10.14505/jmef.v7.1(12).03
- '21, D. Carfi, A. Donato. Environmental Management through coopetitive urban waste recycling in eco-industrial parks. *Mathematics* 2021, vol. 9, issue 19: 2520. ISSN: 2227-7390. Special Issue: Recent Trend in Mathematical Economics and Games: Humanomics and Sustainability. IF: 2,258. <https://www.mdpi.com/2227-7390/9/19/2520> URL: <https://doi.org/10.3390/math9192520>
- '21, D. Carfi, A. Donato, M.I. Fredella, M. Squillante. Coopetitive games for Environmental Sustainability: Climate Change and Decision Global Policies. *Socio-Economic Planning Sciences*, vol. 75. Special Issue: Decision-Making for Environmental Sustainability. ISSN: 0038-0121. IF: 4,149. DOI: <https://doi.org/10.1016/j.seps.2020.100807>
- '20, A. Donato. Effect of science in the relation between firms' technological diversification and innovation performance. *Journal of Mathematical Economics and Finance*, vol. 6, issue 1(10), pp. 7-17. ASERS Publishing. doi: [https://doi.org/10.14505/jmef.v6.1\(10\).01](https://doi.org/10.14505/jmef.v6.1(10).01)
- '20. D. Carfi, A. Donato. Mathematical models for simulating Covid-19 contagion in Italy: first wave. *Journal of Mathematical Economics and Finance*, vol. 6, issue 1(10), pp.39-53. ISSN: 2458-0813. ASERS Publishing. doi: [https://doi.org/10.14505/jmef.v6.1\(10\).03](https://doi.org/10.14505/jmef.v6.1(10).03)
- '20, D. Carfi, A. Donato. Risk Management of food health hazard by meat consumption reduction: a coopetitive game approach. *Soft Computing*, vol. 24: 13705–13716. ISSN: 1432-7643. IF: 3,050. DOI: 10.1007/s00500-019-04474-6
- '19. D. Carfi, A. Donato, D. Schilirò. Coopetitive Solutions of Environmental Agreements for the Global Economy after COP21 in Paris. *Journal of Environmental Management*, vol. 249. ISSN: 0301-4797. IF: 5,647. DOI <https://doi.org/10.1016/j.jenvman.2019.109331>
- '19. D. Carfi, A. Donato. Cournot-Bayesian General Equilibrium: A Radon Measure Approach. *Mathematics*, vol. 7, issue 1, pp. 10-29, 2019. ISSN: 2227-7390. Special Issue: Recent Advances in Game and Decision Theory: Structures, Models, Applications and Software Implementation. IF: 1,747. DOI <https://doi.org/10.3390/math7010010>
- '18. A. Donato, D. Carfi, B. Blandina. Coopetitive Games for Management of Marine Transportation Activity: a Study Case. *Mathematics*, vol. 6, issue 12, pp. 322-338, 2018. ISSN: 2227-7390. Special Issue: Recent Advances in Game and Decision Theory: Structures, Models, Applications and Software Implementation. IF: 1,747. DOI <https://doi.org/10.3390/math6120322>
- '18. D. Carfi, A. Donato. A New Composite Indicator of Household Risk Preparation, *Journal of Applied Economic Sciences*, vol. 13, issue 3(57), pp. 605-614. ISSN: 1843 - 6110. ASERS Publishing. URL: <https://journals.aserspublishing.eu/jaes>

- '18. A. Donato. Technological innovation and paradigm, *Journal of Mathematical Economics and Finance*, S.I., vol. 4, issue 1(6), pp. 71-78. ISSN: 2458-0813. ASERS Publishing. doi: 10.14505/jmef.v4.1(6).04
- '18. D. Carfi, A. Donato, D. Schilirò. A Multidimensional Coepetitive Duopoly model for a Sustainable Global Economy, *Journal of Mathematical Economics and Finance*, vol. 4, issue 1(6), pp. 99-116. ISSN: 2458-0813. ASERS Publishing. doi: 10.14505/jmef.v4.1(6).07
- '18. D. Carfi, A. Donato. Influence of celebrated movies and TV series on the US baby names: literature review and statistical developments, *Journal of Mathematical Economics and Finance*, vol. 4, issue 1(6), pp. 55-69. ISSN: 2458-0813. ASERS Publishing. doi: 10.14505/jmef.v4.1(6).03
- '18. D. Carfi, A. Donato. Coepetitive Games for Sustainability of Global Feeding and Climate Change: Recent Developments, *Journal of Environmental Management and Tourism*, S.I., vol. 9, issue 1(25), pp. 200-215. ISSN: 2068-7729. ASERS Publishing. doi: 10.14505/jemt.v9.1(25).25
- '17. D. Carfi, A. Donato, D. Panuccio, A Game Theory Coepetitive Perspective for Sustainability of Global Feeding: Agreements Among Vegan and Non-Vegan Food Firms. In A. J. Vasile and D. Nicolò editors, Sustainable Entrepreneurship and Investments in the Green Economy, volume of Book Series on *Advances in Business Strategy and Competitive Advantage* (ABSCA), pp. 100-143, IGI Global. ISSN: 2327-3429. ISBN: 9781522520757. DOI: <https://dx.doi.org/10.4018/978-1-5225-2075-7.ch004>.
- '17. A. Donato. A Matlab algorithm for the resolution of fourth degree equations. *Journal of Mathematical Economics and Finance*, vol. 3, issue 2(5), pp. 7-18, 2017. ASERS Publishing. URL: <https://journals.aserspublishing.eu/jmef/article/view/1725>
- '17. A. Donato. A multilinear interaction model: algorithms for Kalai-Smorodinsky solution. *Journal of Mathematical Economics and Finance*, vol. 3, issue 1(4), pp. 47-76, 2017. ASERS Publishing. URL: <http://journals.aserspublishing.eu/jmef/article/view/1355>
- '16. D. Carfi, A. Donato. Complete study of a coepetitive R&D Alliance. *Journal of Mathematical Economics and Finance*, vol. 2, issue 2(3), pp. 35-66, 2016. ASERS Publishing. URL: <http://journals.aserspublishing.eu/jmef/article/view/922>
- '16. D. Carfi, A. Donato. A critical analytic survey of an Asymmetric R&D Alliance in Pharmaceutical industry: bi-parametric study case. *Journal of Mathematical Economics and Finance*, vol. 2, issue 1(2), pp. 21-57, 2016.

Papers or chapters published in volumes (9)

- '22. D. Carfi, A. Donato. Giochi in forma decisionale: definizioni e applicazioni. In R. Guameri, editor, *Economia, territorio e azienda*. Aracne editrice, 2022. ISBN: 979-12-218-0427-0
- '21. D. Carfi, A. Donato. An interfering economic game: analytic bargaining solutions. In R. Guameri, editor, *Economia, territorio e azienda*, pp. 31-51. Aracne editrice, 2021. ISBN:979-12-5994-521-1. DOI: 10.53136/97912599452114
- '20. A. Donato, D. Carfi. Probabilistic partial selling in pharmaceutical industry. In R. Guameri, editor, *Economia, territorio e azienda. Lineamenti e prospettive di analisi*, pp.157-176. Aracne editrice, 2020. ISBN: 978-88-255-3723-9. DOI: 10.4399/97888255372397.
- '19. D. Carfi, A. Donato. Critical strategies and Nash equilibria in a coepetitive scenario within COP21: analytical study and algorithm. In R. Guameri, editor, *Economia, territorio e azienda. Lineamenti e prospettive di analisi*, pp.55-69. Aracne editrice, 2019. ISBN: 978-88-255-3038-4. DOI: 10.4399/97888255303845.
- '18. D. Carfi, A. Donato, D. Schilirò. Environmental Sustainability. A coepetitive framework for a Global Economy. In R. Guameri, editor, *Economia, territorio e azienda. Lineamenti e prospettive di analisi*, pp. 73-92. Aracne editrice, 2018. ISBN: 978-88-255-2501-4. DOI: 10.4399/97888255250145.
- '17. D. Carfi, A. Donato. Coepetitive global Green Economy by sustainable food production. A game theory approach. In G. Centorrino, editor, *Economia, territorio e azienda. Lineamenti e prospettive di analisi*, pp. 97-117. Aracne editrice, 2017. ISBN: 978-88-255-1798-9. DOI: 10.4399/97888255179896.

- '17. D. Carfi, A. Donato, G. Gambarelli, Kalai-Smorodinsky Balance for N-tuples of Interfering Elements. In N.T. Nguyen et al. (Eds.), **Transactions on Computational Collective Intelligence XXVII**, LNCS 10480, pp. 1–27, Springer International Publishing AG 2017. ISBN: 978-3-319-70647-4. DOI: https://doi.org/10.1007/978-3-319-70647-4_1
- '17. D. Carfi, A. Donato, D. Panuccio, A Game Theory Cooperative Perspective for Sustainability of Global Feeding: Agreements Among Vegan and Non-Vegan Food Firms. In Resources Management Association editor, **Game Theory: Breakthroughs in Research and Practice**, pp. 71-104, IGI Global, 2017. ISBN: 9781522525943. DOI: <https://dx.doi.org/10.4018/978-1-5225-2594-3.ch004>
- '16. D. Carfi, M. Campbell, A. Donato. Partial selling in a cooperative Alliance within Pharmaceutical industry: a complete study case. In G. Centorrino, editor, **Economia e Territorio: prospettive di analisi**, pp.73-113. Aracne editrice, 2016. ISBN: 978-88-255-0444-6. DOI: <https://doi.org/10.4399/97888255044466>

Papers published in the proceedings of international conferences (4)

- '21. D. Carfi, A. Donato, D. Schilirò. Industrial meat production and ocean degradation: cooperative paradigms towards economic structural solutions and healthy diet changes. **IEEE 2021 International Workshop on Metrology for the Sea; Learning to Measure Sea Health Parameters (MetroSea)**, 2021, pp. 80-85. ISBN: 978-1-6654-1458-6. DOI: 10.1109/MetroSea52177.2021.9611566. <https://ieeexplore.ieee.org/document/9611566>
- '21. D. Carfi, A. Donato, M. Squillante, M.I. Fredella. Plastic ocean reduction via green packaging cooperative agreements. **IEEE 2021 International Workshop on Metrology for the Sea; Learning to Measure Sea Health Parameters (MetroSea)**, 2021, pp. 68-73. ISBN: 978-1-6654-1458-6. DOI: 10.1109/MetroSea52177.2021.9611611. <https://ieeexplore.ieee.org/document/9611611>
- '18. D. Carfi, A. Donato, D. Schilirò. An Environmentally Sustainable Global Economy. A cooperative model. In Book of Papers of **24th International Sustainable Development Research Society Conference**, Messina Italy June 13/15 2018, "Action for a Sustainable World: from Theory to Practice", pages 592-605. ISBN: 978-88-943228-6-6.
- '18. D. Carfi, A. Donato, D. Schilirò. Sustainability of Global Feeding. Cooperative interaction among Vegan and Non-Vegan Food Firms. In Book of Papers of **24th International Sustainable Development Research Society Conference**, Messina Italy June 13/15 2018, "Action for a Sustainable World: from Theory to Practice", pages 655-669. ISBN: 978-88-943228-6-6.

Thesis (1)

- '20. A. Donato. Knowledge recombination, external collaborations and firms' innovative capabilities. PhD thesis, University of Messina. <https://iris.unime.it/handle/11570/3182145#.YWleqBpBzIU>

Books (1)

- '13. A. Donato, La valutazione delle pavimentazioni flessibili. Modelli di backcalculation e algoritmi genetici. Il Gabbiano, pp. 1-196, 2013. ISBN: 978-88-96293-23-2.

- Conferences (14)
- '23, A. Donato. Ricombinazione delle conoscenze, collaborazioni esterne e capacità di innovazione delle aziende. **Creatività umana e Intelligenza Artificiale: le nuove frontiere dell'innovazione** (Tavola Rotonda e Premio Bernardo Nobile XVIII Edizione). May 25, 2023, Area Science Park, Trieste, Italy. <https://www.areasciencepark.it/events/creativita-umana-e-intelligenza-artificiale-le-nuove-frontiere-dellinnovazione/>
 - '21. D. Carfi, A. Donato, M. Squillante, M.I. Fredella. Plastic ocean reduction via green packaging cooperative agreements. **2021 IEEE International Workshop on Metrology for the sea**, October 4-6, 2021, Mediterranea University of Reggio Calabria, Reggio Calabria, Italy. <https://www.metrosea.org/index.php/>
 - '21. D. Carfi, A. Donato, D. Schilirò. Industrial meat production and ocean degradation: cooperative paradigms towards economic structural solutions and healthy diet changes. **2021 IEEE International Workshop on Metrology for the sea**, October 4-6, 2021, Mediterranea University of Reggio Calabria, Reggio Calabria, Italy. <https://www.metrosea.org/index.php/>
 - '20, A. Donato. Giochi cooperativi per il pianeta. Futuro Remoto 2020 – MUSImatmatlCA per IL PIANETA. November 27, 2020, Fondazione Idis Città della Scienza, Naples, Italy. <https://www.unisannio.it/it/eventi/unisannio-futuroremoto-musimatmatlca-pianeta>
 - '19, D. Carfi, A. Donato, M.I. Fredella, M. Squillante. Plastic Ocean and Climate Change: a cooperative integrated risk management approach, **AGU Fall Meeting 2019**, December 9-13, 2019, San Francisco, USA. <https://agu.confex.com/agu/fm19/prelim.cgi/Paper/609895>
 - '19, A. Donato, F.P. Appio, D. Baglieri, F. Cesaroni. Where do radical innovations come from? The case of nanotech. **R&D Management Conference 2019. The innovation challenge: bridging research, industry & society**, Ecole Polytechnique, June 17-21, 2019, Paris, France. https://www.conftool.org/rdmanagement2019/index.php?page=browseSessions&form_session=69
 - '18, A. Donato, D. Carfi, Risk Management of Food Production Scarcity: A Cooperative Approach, **DySES 2018: Systemic Risk** - Paris 1, Panthéon Sorbonne University, October 9-12, 2018, Paris, France. <http://www.dyses2018.org>
 - '18, D. Carfi, A. Donato, Risk Management of Climate Change: Cooperative scenarios of Paris Agreement, **DySES 2018: Systemic Risk** - Paris 1, Panthéon Sorbonne University, October 9-12, 2018, Paris, France. <http://www.dyses2018.org>
 - '18, D. Carfi, A. Donato, D. Schilirò. An Environmentally Sustainable Global Economy. A cooperative model. **24th International Sustainable Development Research Society Conference, Action for a Sustainable World: from Theory to Practice**, June 13/15 2018, Department of Economics, University of Messina, Messina, Italy. <http://programme.exordo.com/isdrs2018/>
 - '18, D. Carfi, A. Donato, D. Schilirò. Sustainability of Global Feeding. Cooperative interaction among Vegan and Non-Vegan Food Firms. **24th International Sustainable Development Research Society Conference, Action for a Sustainable World: from Theory to Practice**, June 13/15 2018, Department of Economics, University of Messina, Messina, Italy. <http://programme.exordo.com/isdrs2018/>
 - '16, D. Carfi, A. Donato, G. Gambarelli. Kalai-Smorodinsky Balance for n-tuples of Interfering Elements. **Autumn Seminar 2016** at the WSB University in Wroclaw, Poland.
 - '16, D. Carfi, A. Donato, Dynamical cooperative games in pharmaceutical R & D alliances with fractal-like trajectories, **Summer School on Fractal Geometry and Complex Dimensions**, June 21-29, 2016, Cal Poly San Luis Obispo, California, USA. <http://www.calpoly.edu/~epearse/Fractals2016/>
 - '15, D. Carfi, A. Donato. Dirac Calculus and Schwartz Linear Algebra: Dirac inner product and Dirac orthonormality. Special Session on Mathematical Techniques in Quantum Theories and Quantum Finance, with Applications – **AMS Fall Western Sectional Meeting**, Meeting #1114, October 24/25, 2015, California State University Fullerton, Fullerton California (USA). http://www.ams.org/meetings/sectional/2221_program_ss11.html
 - '13, D. Carfi, A. Donato, F. Lanzafame. A Cooperative Game Theory Approach to Asymmetric R&D Alliances, **9th Spain-Italy-Netherlands Meeting on Game Theory (SING9)**, July 8/10, 2013, Vigo, Spain. http://xsgapeio.uvigo.es/index.php?option=com_content&view=article&id=77:9th-spain-italy-netherlands-meeting-on-game-theory-sing9&catid=13:congresses&Itemid=9

- Seminars (3)**
- '20, A. Donato. Are technological novel inventions successful? A patent analysis in the silica aerogel sector. Seminar organized by University of Messina, October 12, 2020.
 - '20, A. Donato. Influence of basic research in the relation between technological diversification and innovation performance in science-based firms. Seminar organized by University of Messina, Management Department, February 12, 2020.
 - '19, A. Donato. Where do radical innovations come from? The case of nanotech. Seminar organized by University of Messina, September 17, 2019.
- Honours and awards (3)**
- 2023 May 25, **Prize Bernardo Nobile XVIII edition for PhD thesis**, Area Science Park, Trieste, Italy. URL: <https://www.areasciencepark.it/servizi-per-linnovazione/premio-bernardo-nobile-2/> ; <https://www.areasciencepark.it/xviii-edizione-premio-bernardo-nobile-2022-i-vincitori/>
 - 2019, November 8, **Anassilaos prize for research (Premio Anassilaos Giovani)**, Reggio Calabria (Italy). URL: <https://www.anassilaos.it/premio-anassilaos-giovani-2019/>
 - 2019, D. Carfi, A. Donato "Cournot-Bayesian General Equilibrium: A Radon Measure Approach" chosen as **Cover Page of Mathematics**, vol. 7, issue 1, 2019. ISSN: 2227-7390. <https://www.mdpi.com/2227-7390/7/1>
- Memberships (7)**
- '23, **Member of Organizing Committee** of the DySES Conference 2023, October 17-20, University of Almeria, Spain. <http://www2.ual.es/DySESconference2023/>
 - From 2023, **Review Editor** of Research Policy and Strategic Management, section of *Frontiers in Research Metrics and Analytics* (ISSN: 2504-0537). <https://loop.frontiersin.org/people/2292947/overview>
 - '22, **Member of Organizing Committee** of the DySES Conference 2022, October 5-7, NEOMA Business School, France. <https://neoma-bs.com/faculty-and-research/research/dyses2022-conference/>
 - '22, **Guest Editor** of the Special Issue of the International Journal *Mathematics*: "Mathematical Methods of Economics and Finance" ISSN: 2227-7390. URL: https://www.mdpi.com/journal/mathematics/special_issues/mathematical_methods_of_economics_and_financial
 - '21, **Guest Editor** of the Special Issue of the International Journal *Mathematics*, "Recent Trend in Mathematical Economics and Games: Humanomics and Sustainability". ISSN: 2227-7390. URL: https://www.mdpi.com/journal/mathematics/special_issues/Recent_Trends_Mathematical_Economics_Games_Humanomics_Sustainability
 - From 2014 to 2021, **member** of "Ordine degli Ingegneri della provincia di Messina" with the registration number n. 3927
 - From 2015 **Assistant Editor** of the international journal *Journal of Mathematical Economics and Finance*, ASERS
- Reviewer's activities**
- Reviewer of **Sensors** (MDPI)
 - Reviewer of **Sustainability** (MDPI)
 - Reviewer of **Mathematics** (MDPI).
 - Reviewer of **Journal of Industry, Competition and Trade** (Springer).
 - Reviewer of **Energies** (MDPI).
 - Reviewer of **Asian Research Journal of Mathematics**.
 - Reviewer of **Journal of Mathematical Economics and Finance** (ASERS).

Tutoring of training internships (2)

- '21, A. Donato. Come reperire e analizzare informazioni brevettuali per studiare le competenze tecnologiche delle imprese. February 19th, 2021.
<https://www.unime.it/it/dipartimenti/economia/evidenza/comunicazione-relativa-ai-tirocini-i-laureandi-della-sessione-di>
- '20, A. Donato. Come reperire e analizzare informazioni brevettuali per studiare le competenze tecnologiche delle imprese - How to collect and analyze firms' patents in order to assess firms' technological competencies. June, 22-23, 2020.
<https://www.unime.it/it/dipartimenti/economia/evidenza/calendario-e-modalita%E2%80%99-di-prenotazione-partecipare-ai-laboratori>

Certifications

- '23, September 27th, Certificate of the webinar: "Introduzione alla Data Science in ambito aziendale", released by Your Data Teacher
- '15, September 14th, Professional Title: "**Responsible for the prevention and protection service (RSPP)**" (100 hours), released by Collegio Provinciale Geometri e Geometri Laureati di Messina.
- '15, July 8th, Professional Title: "**Security coordinator during the design and execution of the work**" (120 hours), released by Collegio Provinciale Geometri e Geometri Laureati di Messina.
- '11, December 7th, Certificate of the course: "mail sms questionari on line... daily digital" released by ITI Verona Trento, Messina.
- '11, June 6th, Certificate of the course: "technology for every day" released by ITI Verona Trento, Messina.
- '09, November 21th, Certificate of the course: "Recover the new technologies" released by ITI Verona Trento, Messina.

Messina, November 21th, 2023

