

Personal data

Name: Giovanna Maria Dimitri



Email: giovanna.maria.dimitri@gmail.com

Date of Birth: 27/03/1990

Website: <https://sites.google.com/unisi.it/gmdimitri/>

Academic Education

- **From 1/10/2015 to 18/07/2020** PhD in Computer Science, Department of Computer Science, University of Cambridge (Cambridge, UK).
 - **Thesis Title:** "Multilayer networks for brain data analysis and modelling"
 - **Supervisor:** Prof. Pietro Liò
- **From 1/10/2014 to 18/07/2015**, Master (MPhil) in Advanced Computer Science, University of Cambridge (UK)
 - **Final grade:** Maximum with distinction
 - **Thesis:** "Predicting Drugs Side Effects from a Combination of Chemical and Biological profiles"
 - **Supervisor:** Prof. Pietro Liò
- **From 1/10/2012 to 22/09/2014**, Master's Degree in Computer and Automation Engineering, University of Siena, Siena, class LM-32
 - **Final grade:** 110/110 cum laude (average marks 29.9)
 - **Thesis:** Prediction of Protein Function using Semantic Based Regularization
 - **Supervisor:** Prof. Michelangelo Diligenti
- **From 1/10/2009 to 17/12/2012**, First cycle degree in Computer Engineering, class L-8
 - **Final Grade:** 110 /110 cum laude (average marks 28)
 - **Thesis:** Web documents clustering using web search engine users' logs
 - **Supervisor:** Prof. Michelangelo Diligenti
- **From 1/10/2003 to 28/02/2013**, Conservatory Diploma in Piano (Vecchio Ordinamento) at the "Istituto di Alta Formazione Musicale Rinaldo Franci", Siena
 - **Final Grade** 8.50/10
- **From 15/09/2004 to 18/07/2009**, High School Diploma, Liceo Classico Enea Silvio Piccolomini, Siena
 - **Final Grade:** 100 laude and honourable mention from the Ministry of Research (registered in the National Register of Excellence).

Professional Experience and Research Contracts

- **From 16/02/2023 – in progress (contract term 15/02/2026)**
 - **Contract:** Fixed-term Researcher (Type A), on PNRR AgriTech project, S.S.D ING/INF 05 (duration 3 years)
 - **Location:** Department of Information Engineering and Mathematical Sciences (DIISM), University of Siena
 - **PI:** Prof. Marco Gori
- **From 16/02/2022 to 15/02/2023**
 - **Contract:** Research Assistant in Deep Learning and Image Processing, title: "Forensic analysis of images and video sequences for the detection of manipulations", S.S.D ING/INF 03
 - **Location:** Department of Information Engineering and Mathematical Sciences (DIISM), University of Siena
 - **PI:** Prof. Mauro Barni
- **From 1/02/2021 to 31/01/2022**
 - **Contract:** Research Assistant in Deep Learning and Image Processing "Development of Machine Learning models for automatic ECG analysis", S.S.D. 01/B1
 - **Location:** Department of Computer Science, University of Pisa
 - **PI:** Prof. Alessio Micheli
- **From 1/04/2020 to 31/12/2020**
 - **Contract:** Research Grant, University Hospital of Siena, "Morpho-functional evaluation of transplants with image analysis techniques"
 - **Location:** U.O.C. Pathological Anatomy of the University Hospital Sienese and Department of Information Engineering and Mathematical Sciences, University of Siena
- **From 1/04/2019 to 31/03/2020**
 - **Contract:** Research Assistant, "Implementation of a web platform for monitoring the disease in the neurological patient through the study of structural magnetic resonance biomarkers", S.S.D MED/26
 - **Location:** Department of Medical, Surgical and Neuroscience Sciences
 - **PI:** Prof. Nicola De Stefano

Chair of International Conferences and workshops

- **Date:** 31st August 2025 -5th September 2025
 - **Role:** General Chair of the 21st International Conference on Complex Networks (CCS Society)
 - **Conference:** <https://ccs25.cssociety.org/>
 - **Conference Description:** International Conference of the Complex Systems Society,
 - **Location:** Siena, Italy

- **Date:** 30th June- 5th July 2025
 - **Role:** General Chair for the “The 1st Workshop on **New Trends for Artificial Intelligence in Medicine (TAIM)** Providing clinicians the best Deep Learning Architecture”
 - **Conference:** IJCNN (International Joint Conference on Neural Networks) 2025
 - **Conference Description:** Rank A International conference on Neural Networks
 - **Location:** Rome, Italy
 - **References:** <https://2025.ijcnn.org/>

- **Date:** 30th June- 5th July 2025
 - **Role:** Publication Chair for the “VERIMEDIA: International Workshop on Media Verification and Integrity”
 - **Conference:** IJCNN (International Joint Conference on Neural Networks) 2025
 - **Conference Description:** Rank A International conference on Neural Networks
 - **Location:** Rome, Italy
 - **References:** <https://verimediainijcnn2025.github.io/workshop.website/>

- **Date:** 5-7 June 2024
 - **Role:** Chair and Organizer of the Workshop on Artificial Intelligence and Agriculture
 - **Conference:** WIRN (Italian Workshop on Neural Networks (WIRN), Conference, Chair of the Workshop on AI and Agriculture
 - **Conference Description:** Historical and annual conference of the Italian Society on Neural Networks (SIREN), established in 1989
 - **Location:** Vietri sul Mare, Italy
 - **References:** <https://www.siren-neural-net.it/wirn-2024/special-sessions/artificial-intelligence-agriculture/>

- **Date:** 22-27 September 2023
 - **Role:** Organizer and Chair of the Workshop: "Deep Learning and Multimedia Forensics. Combating fake media and misinformation"
 - **Conference:** ECML-PKDD (European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases) <https://2023.ecmlpkdd.org/>
 - **Conference Description:** Conference of international importance, considered the leading European conference on machine learning and data mining.
 - **Location:** Turin, Italy
 - **Reference:** <https://sites.google.com/unisi.it/dlmultiforworkshop-ecmlpkdd23>

- **Date:** 17-21 October 2022
 - **Role:** Organizer and Chair of the Satellite Event: "Artificial Intelligence in Complex Networks"
 - **Conference:** Conference on Complex Systems (CCS)
 - **Description of the Conference:** A world-class conference, it is the most important annual conference for the research community on complex systems (established in 2004).
 - **Location:** Palma de Mallorca, Mallorca, Spain
 - **References:** <https://sites.google.com/view/ccs2022-ml-network>

- **Date:** 5-7 October 2022

- **Role:** Organizer and chair of the Special Session "Deep Semantic Segmentation Models in Computer Vision"
- **Conference:** ESANN European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning, 2022
- **Conference Description:** Historical European Symposium on Artificial Intelligence since 1992
- **Location:** Bruges, Belgium
- **References:** <https://www.esann.org/special-sessions#session3>
- **Dates:** 6-8 September 2018
 - **Role:** Organizer and Chair Special Session
 - **Conference:** CIBB, Computational Intelligence methods for Bioinformatics and Biostatistics
 - **Location:** FCT Nova University, Lisbon, Portugal
 - **References:** <https://eventos.fct.unl.pt/cibb2018/files/ss1.pdf>

National and International Awards and Recognitions for Research Activities

- **2023 DAAD Post-DOC AiNet fellowship:** winner of the German DAAD AiNet Foundation award to be carried out at universities in Germany for collaborations with a German research group on Generative Models in Machine Learning (20% acceptance rate). I was interviewed and admitted to the visiting of the Laboratory of Prof. Gemma Roig Lab (Goethe University, Frankfurt, Department of Computer Science). Reference website: <https://www.daad.de/en/the-daad/postdocnet/fellows/fellows/#Dimitri>
<https://www.cvai.cs.uni-frankfurt.de/team.html>
- **October 28-29, 2021:** Grand Prize Winner, Rare Disease Hackathon 2021, (<https://forumdellaleopolda.it/hackathon-2021/>). Proposal of a tool for detecting emotion of vocally impaired disabled people.
- **From 1 October 2015 to 31 March 2019:** Winner of the competition for the PhD scholarship in Computer Science funded by the EPSRC (UK)

Additional Awards, Scholarships, and Travel Awards

- **October 2024:** Short Listed at Premio Italia Giovane
- **October 2023:** Finalist at the EpyHack Hackathon 2023 (<https://forumdellaleopolda.it/epy-hack/>)
- **December 2022:** Finalist at the Young Italy Award <https://premioitaliagiovane.it/>
- **August 2019:** Winner of the Clare Hall College Research Award (£650) for completing a period of study and visit at the MILA Research Centre (Montreal, Canada)
- **13-17 May 2019:** Winner of the Complex Systems Society (CSS) Award to participate in the Spring School in Complex Networks, Como (Italy)
- **October 2018:** Winner of the Travel Award organized by the Alan Turing Institute, London, to participate in the Workshop in "Innovative Data Science for Alzheimer's"
- **Academic Year 2014/2015:** Santander Scholarship, received from Clare Hall College University of Cambridge
- **April 2015:** Finalist of the BCS Women Lovelace colloquium Poster Contest, at the Informatics Forum in Edinburgh (University of Edinburgh)
- **Academic Year 2012/2013:** Winner of a scholarship (for academic merits), reserved for students enrolled in the first year of the master's degree course in Computer Science and Automation Engineering, at DIISM, University of Siena

- **Academic Year 2009/2010:** Winner of the Scholarship (for academic merits) announced by the Tuscany Region for women enrolled in Scientific Subjects, at DIISM, University of Siena
- **Academic Year 2009/2010:** Winner of the Scholarship (for academic merits) for students enrolled in the first year of the Bachelor's Degree in Computer Engineering, at DIISM, University of Siena
- **Academic Year 2009/2010:** Winner of the Scholarship (for academic merits) for recent graduates in memory of Gaia Gotti organized by the Contrada del Drago (Siena)
- **Academic Year 2009/2010:** Winner of the Rotary Siena Est Scholarship (RYLA)
- **Academic Year 2009/2010:** Winner of the MIUR Scholarship for merits related to the State exam, registration in the National Register of Excellence
- **12-18 July 2018:** Selected by the Scuola Normale Superiore to participate in the Summer Orientation School in Colle di Val D'Elsa organized by the Scuola Normale Superiore (Pisa)
- **Years 2003-2004-2007-2009:** Winner of the "Don Muzzi" Scholarship: organized by Chianti Banca, Banca Credito Cooperativo Monteriggioni (Siena)

Awards for academic and sports recognition

I was selected for the first team of the University of Cambridge, for the fencing first team. I won the full blue award in 2014 (winning Varsity and the British University Championships) and the half blue award in 2016 and 2019.

- **2016, 2017, 2018 and 2019:** University of Cambridge Hawks Award for Excellence in Sport and Higher Education
- **2014/2015** Full Blues Award for fencing from the University of Cambridge and Half Blues Award in **2015/2016 and 2018/2019**
- **2015, 2016 and 2019:** Clare Hall Blues Awards, Clare Hall College and University of Cambridge

Publications

For each journal in which I hold a publication, I also specify the relative impact factor and the quartile in which the journal for Scimago is located, together with the Scopus percentile.

For Scimago the journals are divided into quartiles with Q1 as the most prestigious quartile. As for Scopus, however, I present the relative percentiles.

Publications in Peer Reviewed Journals

1. Suriyagandhi, V., Ma, Y., Paparozzi, V., Guarnieri, T., di Pietro, B., **Dimitri, G. M.**, ... & Nardini, C. (2024). Mechanotransduction and inflammation: an updated comprehensive representation. *Mechanobiology in Medicine*, Springer, 100112. **(Impact Factor: 4.4)**
2. Florindi, Filippo, Pasquale Fedele, and **Dimitri G.M.** "A novel solution for the development of a sentimental analysis chatbot integrating ChatGPT." *Personal and Ubiquitous Computing* (2024): 1-14, Springer. **(Impact Factor: 3.06, Scimago: Q1, Scopus: 87%)**
3. **Dimitri, G.M.**, and Alberto Trambusti. "Precision Agriculture for Wine Production: A Machine Learning Approach to Link Weather Conditions and Wine Quality." *Heliyon* (2024): e31648. **(Impact Factor: 4.0, Scimago: Q1, Scopus: 86%)**
4. Abady, L., **Dimitri G.M.**, Barni, Mauro. "A One-Class Classifier for the Detection of GAN Manipulated Multi-Spectral Satellite Images." *Remote Sensing* 16.5 (2024): 781. **(Impact Factor: 4.84, Scimago: Q1, Scopus: 90%)**

5. Vozzi, F., Pedrelli, L., **Dimitri, G. M.**, Micheli, A., Persiani, E., Piacenti, M., ... & Morales, M. A. (2024). Echo state networks for the recognition of type 1 Brugada syndrome from conventional 12-LEAD ECG. *Heliyon* (**Impact Factor: 4.0, Scimago: Q1, Scopus: 86%**)
6. Castelli, T., Mocenni, C., **Dimitri, G.M.**, A machine learning approach to assess Sustainable Development Goals food performances: The Italian case. *PLOS ONE*. 19. E0296465. 10.1371/journal.pone.0296465, (2024), (**Impact Score: 3.58, Impact Factor: 3.752, Scimago: Q1, Scopus: 87%**)
7. Andreini, P.*, Bonechi, S.*, Dimitri, G.M.* (2023) "Enhancing Glomeruli Segmentation through Cross–Species Pre–Training" (**all authors contributed equally, i.e. I am the first author**), in press for *Neurocomputing*, Elsevier journal (**Impact Factor 5.779, Scimago: Q1, Scopus: 93%**)
8. Vitanza, E.*, **Dimitri, G. M.***, & Mocenni, C.* (2023). A multi-modal machine learning approach to detect extreme rainfall events in Sicily. *Scientific Reports*, 13(1), 6196 (*** equal contribution**) (**Impact Factor 4.6, Scimago: Q1, Scopus: 92%**)
9. Pucci, F., Fedele, P., and **Dimitri, G.M.** "Speech emotion recognition with artificial intelligence for contact tracing in the COVID-19 pandemic. *Cognitive Computation and Systems* 5.1 (2023): 71-85 (**not yet with impact factor due to being a new journal**)
10. Miconi Federico*, **Dimitri G.M.*** "A machine learning approach to model and predict the electric vehicles scenario: the Italian case", *PloS ONE* (2023) ***Authors Contributed Equally** (**Impact Score: 3.58, Impact Factor: 3.752, Scimago: Q1, Scopus: 87%**)
11. Guerranti, Filippo, and Giovanna Maria Dimitri. "A Comparison of Machine Learning Approaches for Predicting Employee Attrition." *Applied Sciences* 13.1 (2023): 267, (**Journal Impact Score: 3.67, Journal Impact Factor: 2.838, Scimago: Q2, Scopus: 75%**)
12. **Dimitri G.M.**, "A Short Survey on Deep Learning for Multimodal Integration: Applications, Future Perspectives and Challenges", *Computers* 2022, 11(11), 163; <https://doi.org/10.3390/computers11110163> (**Journal Impact Score: 2.75, Journal Impact Factor: 2.604, Scimago: Q2, Scopus:)**
13. **Dimitri, G.M.** et al. "NMR Spectroscopy Combined with Machine Learning Approaches for Age Prediction in Healthy and Parkinson's Disease Cohorts through Metabolomic Fingerprints", *Appl. Sci.* 2022, 12(18), 8954; <https://doi.org/10.3390/app12188954> (**Journal Impact Score: 3.67, Journal Impact Factor: 2.838, Scimago: Q2, Scopus:)**
14. **Dimitri, Giovanna Maria**, et al. "Multimodal and multicontrast image fusion via deep generative models." *Information Fusion* 88, Elsevier (2022): 146-160. (**Journal Impact Score: 18.92, Impact Factor: 17.564, Scimago: Q1, Scopus: 99%**)
15. **Dimitri, G.M.**, et al. "Deep Learning Approaches for the Segmentation of Glomeruli in Kidney Histopathological Images." *Mathematics* 10.11 (2022): 1934 (**Journal Impact Score.: 2.84, Journal Impact Factor.: 1.74, Scimago: Q2, Scopus: 88%**)
16. Bongini, P., Pancino, N., **Dimitri, G. M.**, Bianchini, M., Scarselli, F., & Lio, P. (2022). Modular multi-source prediction of drug side-effects with DruGNN. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*. (**Journal Impact Score: 2.85, Journal Impact Factor: 3.71, Scimago: Q2, Scopus: 94%**)

17. Zago, E.*, Dal Molin, A.*, **Dimitri, G. M.***, Xumerle, L., Pirazzini, C., Bacalini, M. G., ... & Nardini, C. (2022). Early downregulation of hsa-miR-144-3p in serum from drug-naïve Parkinson's disease patients. *Scientific Reports*, 12(1), 1-13. (* all the authors contributed equally, i.e. I am a first author) (Impact Factor 4.6, Scimago: Q1, Scopus: 92%)
18. **Dimitri, G.M.**, et al. "Modelling Brain–Heart Crosstalk Information in Patients with Traumatic Brain Injury." *Neurocritical Care* (2022): 1-13. (Journal Impact Score: 2.69, Journal Impact Factor: 3.2, Scopus: 80%, Scimago: Q1)
19. Pancino, N.; Graziani, C.; Lachi, V.; Sampoli, M.L.; Ștefănescu, E.; Bianchini, M.; **Dimitri, G.M.** A Mixed Statistical and Machine Learning Approach for the Analysis of Multimodal Trail Making Test Data. *Mathematics* (2021), 9, 3159. <https://doi.org/10.3390/math9243159> (Journal Impact Score.: 2.84, Journal Impact Factor.: 1.74, Scopus: 88%, Scimago: Q2)
20. Bonechi,S....., **Dimitri G.M** " Segmentation of aorta 3D CT images based on 2D convolutional neural networks", *Electronics* (2021) (Journal Impact Score: 0.38, Journal Impact Factor: 2.39, Scopus: Q2, Scimago: 68%)
21. Azevedo, T.*, **Dimitri, G. M***, Lió, P., & Gamazon, E. R. (2021). Multilayer modelling of the human transcriptome and biological mechanisms of complex diseases and traits. *npj Systems Biology and Applications*, 7(1), 1-13 (authors contributed equally, i.e. I am the first author) (Journal Impact Score: 3.97, Journal Impact Factor: 4.18, Scimago: Q1, Scopus: 92%)
22. Spiga, O.*, Cicaloni, V.*, **Dimitri, G.M.**, et al, Machine Learning application for patient stratification and phenotype/genotype investigation in rare disease, *Briefings in Bioinformatics*, Oxford (2021) (Journal Impact Score: 9.15, Journal Impact Factor: 11.62 Scimago: Q1, Scopus: 91%)
23. Pirazzini, Chiara,...**Dimitri, G.M.**,... et al. "A Geroscience approach for Parkinson's Disease: conceptual framework and design of PROPAG-AGEING project." *Mechanisms of Ageing and Development* (2020): 111426., Elsevier (Journal Impact Score: 5.432, Journal Impact Factor: 5.43, Scimago: Q1, Scopus: 87%)
24. Cicaloni, V., Spiga, O., **Dimitri, G.M.**, Maiocchi, R., Millucci, L., Giustarini, D., Bernardini G., Bernini A., Marzocchi B., Braconi D.& Santucci, A. (2019). Interactive alkaptonuria database: investigating clinical data to improve patient care in a rare disease. *The FASEB Journal*, fj-201901529R. (2019) (Journal Impact Score: 5.02, Journal Impact Factor: 5.19 Scopus: 87%, Scimago: Q1)
25. Maj, C., Azevedo, T., Giansanti, V., Borisov, O., **Dimitri, G.M.**, Spasov, S., Pietro Lio' & Merelli, I. (2019). Integration of machine learning methods to dissect genetically imputed transcriptomic profiles in Alzheimer's Disease. *Frontiers in Genetics*, 10, 726. (Journal Impact Score: 4.37, Journal Impact Factor: 3.78, Scopus: Q2, Scimago: 53%)
26. **Dimitri, G. M.**, Agrawal S., Young A., Donnelly J., Liu X., Smielewski P., Hutchinson P., Czosnyka M., Lió P., Haubrich C. "A multiplex network approach for the analysis of intracranial pressure and heart rate data in traumatic brain injured patients." *Applied Network Science* 2.1 (2017): 29, Springer Editions. (Journal Impact Score: 2.65, now it is among the Q1 journals, but was just born in 2017 when I published the paper)

27. **Dimitri, G.M.**, Lio' P., "DrugClust: A machine learning approach for drugs side effects prediction." *Computational Biology and Chemistry* 68 (2017): 204-210, Elsevier. (**Journal Impact Score: 3.69, Journal Impact Factor: 2.87, Scimago: Q2, Scopus: 90%**)

Publications in Proceedings of Conferences and Contributions in Volumes

28. Guiducci, L. **Dimitri G.M.**, Palma G., Rizzo, L., "Introducing Intrinsic Motivation in Elastic Decision Transformers", accepted for presentation and proceedings publications for ESANN 2025 (<https://www.esann.org/>)
29. Choksi, B., Zalaffi, G., **Dimitri G.M.**, Roig, G. "Analysing the impact of brain-inspired predictive coding dynamics through gradient based explainability methods", accepted for ESANN 2025 (<https://www.esann.org/>)
30. **Dimitri G.M.**, Tondi, B., Barni, M. "Enhancing Synthetic Generated-Images Detection through Post-Hoc Calibration" accepted for publication at 2025 IEEE/CVF Winter Conference Workshop on AI for Multimedia Forensics and Disinformation Detection Workshop, Tucson, Arizona (USA), February 2025
31. Blanchini, M., **Dimitri G.M.**, Abady, L., Tondi, B., Barni, M., "Semiotic-Based Construction of a Large Emotional Image Dataset with Neutral Samples", accepted for publication at IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), Tucson, Arizona (USA) (<https://wacv2025.thecvf.com/>)
32. Farina, G.,.....**Dimitri G.M.**,.....Chessa S., "Interoperable Traceability in Supply Chains: A Use Case in Agritech", accepted for publication at EA IntSys Conference, <https://futuretransport.eai-conferences.org/2024/accepted-papers-2/>, Pisa, December 2024
33. **Dimitri, G.M.**, Cappelli I., Scarselli F., Fort A., Gori M., "Graph Neural Networks for Missing Data Imputation in Time Series From Meteorological Sensors", accepted for presentation at IEEE MetroXRaine 2024 Conference, St. Albans London 2024 (Post-Conference Proceedings will be published after the conference and indexed in IEEEExplore)
34. Bacco, M., Kocian, A., Crivello, A., Gori, M., **Dimitri, G.M.** et al. "Agricultural Data Space: the METRIQA Platform and a Case Study in the CODECS project" accepted and presented at IEEE FedCis Conference, Belgrade, 2024 (Post-Conference Proceedings will be published after the conference and indexed in IEEEExplore)
35. **Dimitri, G.M.**, Ciasca, B., Lattanzio, V., Kocian, A., Moretti, A., Chessa, S., Scarselli, F. and Gori, M.: Machine Learning in metabolomics for the early detection of *Fusarium verticillioides* infection in maize. accepted and presented at WIRN 2024 (<https://www.siren-neural-net.it/wirn-2024/program/>), and currently under post-conference proceedings publication process
36. Alamayreh, O., Wang, J., **Dimitri, G. M.**, Tondi, B., & Barni, M. (2023). A Siamese Based System for City Verification. In *ECAI 2023* (pp. 69-76). IOS Press.
37. **Dimitri G.M.** et al, "WeAIR: Wearable Swarm Sensors for Air Quality Monitoring to Foster Citizens' Awareness of Climate Change", accepted at IEEE MetroXRaine 2023 conference (Milan 2023, <https://metroxraine.org/>)

38. Bianchini, M., and **Dimitri, G.M.** "Deep learning techniques for biomedical data processing." *Intelligent Decision Technologies* (2023): 1-18
39. "Investigating the Impact of Extreme Rainfall Events on Individual Perception of Climate Change", Vitanza, E., **Dimitri, G.M.**, Mocenni, C., accepted for presentation at the 2023 International Symposium on Nonlinear Theory and its Applications, Catania, September 26–29, 2023 (<http://nolta2023.org>)
40. Barni, Mauro, Costanzo, A., **Dimitri, G. M.**, & Tondi, B: "A GPU-accelerated algorithm for copy move detection in large-scale satellite images." *Image and Signal Processing for Remote Sensing XXIX*. Vol. 12733. SPIE, 2023.
41. "A Preliminary Evaluation of Machine Learning Models for the Diagnosis of Brugada Syndrome from ECG-Extracted Features", Micheli, A., **Dimitri, G.M.**, et al., accepted at WIRN (INDEXED BY SCOPUS Springer Series Smart Innovation, Systems and Technologies)
42. Chessa, S., **Dimitri, G. M.**, Gori, M., & Kocian, A. (2023, July). WoA: an infrastructural, web-based approach to digital agriculture. In *International Symposium on Ambient Intelligence* (pp. 113-122). Cham: Springer Nature Switzerland
43. Alamayreh, O., **Dimitri G.M.**, et al. "Which country is this picture from? New data and methods for DNN-based country recognition." *ICASSP 2023-2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*. IEEE, 2023 (p.p. 1-5)
44. Andreini, P, **Dimitri G.M.**, "Deep Semantic Segmentation Models in Computer Vision", *Proceedings of the European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning*, Bruges 5-7 October 2022
45. Abady, Lydia, **Dimitri, Giovanna Maria**, Barni, Mauro (2022). Detection and Localization of GAN Manipulated Multi-spectral Satellite Images. In: *ESANN 2022*. p. 339-344, Bruges, Belgium, 5-7 October, 2022, doi: 10.14428/esann/2022.ES2022-39 -
46. Meconcelli D., Bonechi S., **Dimitri G.M.**, "Deep Learning Approaches for mice glomeruli segmentation", **Accepted at ESANN** European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning, Bruges 5-7 October 2022
47. **Dimitri, G. M.**, Gallicchio, C., Micheli, A., Morales, M. A., Ungaro, E., & Vozzi, F. (2021). A preliminary evaluation of Echo State Networks for Brugada syndrome classification. In *2021 IEEE Symposium Series on Computational Intelligence (SSCI)* (pp. 01-08). IEEE.
48. Spasov, S. E., Campbell, A., **Dimitri, G.M.**, Di Stefano, A., & Lio, P. (2021, April). TG-DGM Conference: Clustering Brain Activity using a Temporal Graph Deep Generative Model. In *Medical Imaging with Deep Learning*.
49. Ciano, G., **Dimitri, G.M.** et al. "SIAide2Voice: a new educational tool for students with visual disabilities." *teleXbe*. 2021.

50. **Dimitri, G.M.**, et al. "Unsupervised stratification in neuroimaging through deep latent embeddings." *2020 42nd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC)*. IEEE, 2020.
51. **Dimitri, G.M.**, et al. "Introducing brain-heart crosstalks information in clinical decision support systems for TBI patients, through ICM+." *2020 11th Conference of the European Study Group on Cardiovascular Oscillations (ESGCO)*. IEEE, 2020.
52. **Dimitri, G.M.**, Beqiri, E., Czosnyka, M., Ercole, A., Smielewski, P., Liò, P., & CENTER-TBI High Resolution Sub- Study Participants and Investigators,. Analysing cardio-cerebral crosstalks in an adult cohort from CENTER-TBI. *Acta Neurochirurgica: Supplementum* (2020)
53. Bianchini, M., **Dimitri, G. M.**, Maggini, M., Scarselli, F. (2018). Deep Neural Networks for Structured Data. In *Computational Intelligence for Pattern Recognition* (pp. 29-51). Springer, Cham
54. Kuszto, R., **Dimitri, G.M.**, and Lio' P. "Neural Models for Brain Networks Connectivity Analysis." *International Meeting on Computational Intelligence Methods for Bioinformatics and Biostatistics*. Springer, Cham, 2018.
55. **Dimitri, G. M.**, Agrawal S., Young A., Donnelly J., Liu X., Smielewski P., Hutchinson P., Czosnyka M., Lió P., Haubrich C. "Simultaneous transients of intracranial pressure and heart rate in traumatic brain injury: Methods of analysis." *Intracranial Pressure & Neuromonitoring XVI*. Springer, Cham, (2018). 147-151.
56. Rossi, A., Tiezzi, M., **Dimitri, G. M.**, Bianchini, M., Maggini, M., Scarselli, F. Inductive–Transductive Learning with Graph Neural Networks. In *IAPR Workshop on Artificial Neural Networks in Pattern Recognition* (pp. 201-212). Springer, Cham., (2018, September).
57. **Dimitri, G. M.** "The impact of syntax highlighting in sonic pi." *Proceedings of the 26th Annual Conference of the Psychology of Programming Interest Group (PPIG 2015)*. 2015.

Articles submitted and/or under review to journals and conferences:

1. **Dimitri G.M.**, et al. "WeAIR: Wearable Swarm Sensors for Air Quality Monitoring to Foster Citizens' Awareness of Climate Change ", under third of minor revisions to *Computer and Standards Interfaces*, Elsevier
2. Atakli T., Fedele P., **Dimitri G.M.**, "Modelling a User-Centric Interactive AI Agent in Healthcare Applications", under second round of revisions at *Computers in Biology and Medicine* (Elsevier journal)
3. Angiolini G., **Dimitri G.M.** "Impact of Organic Food Consumption on Citizens Health, an unsupervised Machine Learning Approach", under second round of revisions at *ACM Journal of Sustainability and Computing*
4. Di Marco, N., Alamayreh, O., Dimitri, G.M., et al. "Explaining Country Image Classification through Network Science: Insights into DNN Interpretability" , under review in *IEEE Transactions on Emerging Topics in Computing*
5. Schettini, C., Dimitri, G.M. "InfluEmo: A New Benchmark Dataset for Studying Influence of Emotions on Instagram Influencers Success", under submission at *IEEE Transactions on Affective Computing*

Participation in European, national and international projects

- **Project:** Agritech National Research Centre funds from European Union Next-GenerationEU (NATIONAL RECOVERY AND RESILIENCE PLAN (PNRR) – MISSION 4 COMPONENT 2, INVESTMENT 1.4 – D.D. 1032 17/06/2022, CN00000022)
 - **Role Description:** "Development of algorithms based on artificial intelligence for the management of large amounts of data from the Agritech project - Field: Computer Science"
 - **Date of participation in the project:** 16/02/2023-ongoing
 - **Website:** "AGRITECH – National Research Centre for Agricultural Technologies - Spoke 9"
 - **Unit:** Department of Information Engineering and Mathematical Sciences, University of Siena, Siena (Italy)
 - **Role:** Fixed-term researcher (RTDA).
- **Project:** Disinfo detection toolkit, JRC European Union
 - **Project Type:** European Commission, Joint Research Centre, Text and Data Mining Unit, JRC/IPR/2021/VLVP/2478 Disinfo detection toolkit
 - **Date of participation in the project:** 16/02/2021-16/02/2022
 - **Website:** Disinfo detection toolkit - Ares(2021)5838804
 - **Unit:** Department of Information Engineering and Mathematical Sciences (DIISM), University of Siena, Siena (Italy)
 - **Role:** Responsible for the development and testing of a tool for the detection of copy-move manipulations in digital images, part of the Disinfo detection toolkit
- **Project:** SEMAFOR project, DARPA
 - **Project Type:** Project Funded by the Defense Advanced Research Projects Agency
 - **Date of participation in the project:** 16/02/2021-ongoing
 - **Site:** <https://engineering.purdue.edu/SEMAFOR/>
 - **Unit:** Department of Information Engineering and Mathematical Sciences (DIISM), University of Siena, Siena (Italy), part of the DISCOVER: A Data-Driven Integrated Approach for Semantic Inconsistencies Verification unit. PI: Mauro Barni
 - **Role:** Responsible for the development of deep learning model calibration tools for the evaluation of deepfakes and falsified media. I participated in the various competitions organized as part of the DARPA project.
- **Project:** PROPAG-Ageing
 - **Project Type:** Horizon 2020-EU3.1.1, European Project.
 - **Date of participation in the project:** 1 September 2015-31 August 2019
 - **Site:** <https://cordis.europa.eu/project/id/634821/it>
 - **Unit:** UCAM: University of Cambridge, Cambridge, UK
 - **Role:** Project participant. I participated in data collection and data analysis. I participated and presented at the annual meetings in Florence (IT) (October 2016), Seville (ES) (September 2017), London (UK) (September 2018), Bologna (IT) (January and December 2019). I have also published several papers (in the list of publications) as a result of participating in the project. I also participated in the writing of deliverables and milestones and presented at the follow-up meeting of the project held in February 2024.

- **Project:** BraiD
 - **Project Type:** Project funded on the basis of the Health Research Call 2018
 - **Date of participation in the project:** 1/02/2021-31/01/2022
 - **Website:** <https://www.unipi.it/index.php/risultati-e-prodotti/item/18710-braid>
 - **Unit:** University of Pisa, Pisa, Italy
 - **Role:** Research fellow on the project.

Additional Professional Qualifications

- I took and passed the qualifying exam for the profession of Computer and Information Engineer in Florence in the first session of the year 2020 with a grade of 54/60. I have been registered with the Order of Engineers of the Province of Siena since 26/11/2020, Order Registration number 1263.
- Since 1 October 2021 I have been elected to the Training Commission of the Order of Engineers of Siena, and I am responsible for the coordination and proposals of training activities for the engineers of the order.

Program Committee Memberships

- **Date:** 23-25 April 2025
 - **Role:** Program Committee Member
 - **Conference:** ESANN, European Symposium on Artificial Neural Networks
 - **Location:** Bruges, Belgium
 - **References:** [esann.org](https://www.esann.org/)
- **Date:** 5-6 December 2024
 - **Role:** Program Committee Member
 - **Conference:** 8th EAI International Conference on Intelligent Transport Systems
 - **Location:** Pisa, Italy
 - **References:** <https://futuretransport.eai-conferences.org/2024/>
- **Date:** 13-15 December 2024
 - **Role:** Program Committee Member
 - **Conference:** 2024 Brain Informatics Conference
 - **Location:** Bangkok, Thailand
 - **References:** <https://wi-lab.com/cyberchair/2024/bi24/index.php>
- **Date:** 9-11 October 2024 and 4-6 October 2023
 - **Role:** Technical Program Committee Member
 - **Conference:** ESANN (European Symposium on Artificial Neural Networks), 2024
 - **Location:** Bruges, Belgium
 - **Reference:** <https://www.esann.org/committees> and <https://www.esann.org/esann23committees>
- **Date:** 17-19 July 2024
 - **Role:** Program Committee Member
 - **Conference:** 2nd International Conference on Explainable AI (XAI)
 - **Location:** Malta
 - **Reference:** <https://xaiworldconference.com/2024/committees/>

- **Date:** 11-13 December 2018
 - **Role:** Local Organizing Committee
 - **Conference:** International Workshop on Complex Networks
 - **Location:** Computer Laboratory, University of Cambridge, Cambridge, UK
 - **Reference:** *Aiello, Luca Maria, et al., eds. Complex Networks and Their Applications VII: Volume 1 Proceedings the 7th International Conference on Complex Networks and Their Applications Complex Networks 2018. Vol. 812. Springer, 2018* (see the acknowledgments)
- **Date:** June 2016
 - **Role:** Chair and organizer
 - **Conference:** Clare Hall Graduate Conference
 - **Location:** Clare Hall College, University of Cambridge, Cambridge, UK
 - **Description:** The conference was organised as an interdisciplinary event by researchers at the University of Cambridge and was held at Clare Hall College (University of Cambridge, UK). I took care of the call for papers, and of all the organization related to the conference.

Speeches at national and international congresses and conferences

Posters and oral presentations accepted at national and international congresses

- **Date:** 23-25 April 2025
 - **Conference:** ESANN 2025
 - **Location:** Bruges, Bruxelles
 - **Website:** <https://www.esann.org/>
 - **Article:** Choksi, B., Zalaffi, G., **Dimitri G.M.**, Roig, G. "Analysing the impact of brain-inspired predictive coding dynamics through gradient based explainability methods"
 - **Presentation Type:** Poster
 - **Role:** Author and Presenter
- **Date:** 23-25 April 2025
 - **Conference:** ESANN 2025
 - **Location:** Bruges, Bruxelles
 - **Website:** <https://www.esann.org/>
 - **Article:** Guiducci, L. **Dimitri G.M.**, Palma G., Rizzo, L., "Introducing Intrinsic Motivation in Elastic Decision Transformers"
 - **Presentation Type:** Oral
 - **Role:** Author and Presenter
- **Date:** 19-20 February 2025
 - **Conference:** International Workshop on Digital Twins
 - **Location:** Padova, Italy
 - **Website:** <https://sites.google.com/view/dtw25>
 - **Article:** Beqiri, E.;.....; **Dimitri G.M.**, Smielewski, P.; "Improving the reliability of the vascular reactivity index for autoregulation guided management through machine learning modeling" and Atakli, T.; Fedele, P.; **Dimitri G.M.**, "Modelling a User-Centric Interactive AI Agent in Healthcare Applications: Towards Digital twin and Virtual counterparts"

- **Presentation Type:** Oral
- **Role:** Author and Presenter

- **Date:** 19-21 January 2025
 - **Conference:** GTTI MMSP 2025 Winter Meeting
 - **Location:** Valfurva, Bormio, (SO), Italy
 - **Website:** <https://sites.google.com/view/dtw25>
 - **Article:** <https://gtti.deib.polimi.it/schedule.html>
 - **Presentation Type:** Demo Oral Presentation
 - **Role:** Author and Presenter

- **Date:** 28 February 2025-4 March 2025
 - **Conference:** IEEE/CVF Winter Conference on Applications of Computer Vision (WACV) AI4FMDD
 - **Location:** Tucson, Arizona, USA
 - **Website:** <https://wacv2025.thecvf.com/>
 - **Article:** Dimitri, G.M., Tondi, B., Barni, M. , "Enhancing Synthetic Generated-Images Detection through Post-Hoc Calibration"
 - **Presentation Type:** Oral
 - **Role:** First Author

- **Date:** 28 February 2025-4 March 2025
 - **Conference:** IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)
 - **Location:** Tucson, Arizona, USA
 - **Website:** <https://wacv2025.thecvf.com/>
 - **Article:** Blanchini, M., Dimitri, G.M., Abady L., Tondi, B., Barni, M. , "Semiotic-Based Construction of a Large Emotional Image Dataset with Neutral Samples"
 - **Presentation Type:** TBC
 - **Role:** Author

- **Date:** October 20-23 2024
 - **Conference :** IEEE, MetroXRaine Conference
 - **Location:** St Albans, London, UK
 - **Website:** www.metroxraine.org
 - **Article:** Dimitri, G.M, Cappelli I., Scarselli F., Fort A., Gori M., "Graph Neural Networks for Missing Data Imputation in Time Series From Meteorological Sensors"
 - **Presentation Type:** Oral Presentation
 - **Role:** Presenter and First Author

- **Date:** 8-11 September 2024
 - **Conference:** IEEE, FedCis 2024 Belgrade
 - **Location:** Belgrade, Serbia
 - **Website:** (<https://2024.fedcsis.org/>)
 - **Article:** Bacco, M., Kocian, A., Crivello, A., Gori, M., Dimitri, G. M., Barsocchi, P., Brunori, G., Chessa, S.. .. "Agricultural Data Space: the METRIQA Platform and a Case Study in the CODECS project."
 - **Presentation Type:** Oral Presentation

- **Role:** Author
- **Date:** 2-5 September 2024
 - **Conference:** INTS, International Neurotraumatic
 - **Location:** Cambridge, UK
 - **Website:** <https://openingdoors.eventsair.com/ints2024/>
 - **Article:** Beqiri, E.,, **Dimitri G.M.***, Smielewsky, P.* "Improving the reliability of the vascular reactivity index for autoregulation guided management"
 - **Presentation Type:** Poster
 - **Role:** Author (last author position shared with Dr. Peter Smielewsky)
- **Date:** 2-5 September 2024
 - **Conference:** CCS, Complex Networks Society International Meeting
 - **Location:** Exeter, UK
 - **Website:** <https://ccs24.cssociety.org/registration/>
 - **Article:** **Dimitri, G.M.**, Vitanza, E., Mocenni, C. "Swarm Mobile Sensors for Air Quality Monitoring and Citizen Science"
 - **Presentation Type:** Oral Presentation
 - **Role:** First Author
- **Date:** 5-7 June 2024
 - **Conference:** WIRN (Italian Workshop on Neural Networks (WIRN), Conference,
 - **Conference Description:** Historical and annual conference of the Italian Society on Neural Networks (SIREN), established in 1989
 - **Location:** Vietri sul Mare, Italy
 - **References:** <https://www.siren-neural-net.it/wirn-2024/special-sessions/artificial-intelligence-agriculture/>
 - **Article:** **Giovanna Maria Dimitri**, Biancamaria Ciasca, Veronica M.T. Lattanzio, Alexander Kocian, Antonio Moretti, Stefano Chessa, Franco Scarselli and Marco Gori, "Machine Learning in metabolomics for the early detection of Fusarium verticillioides infection in maize"
 - **Type of Presentation:** Oral
 - **Role:** Presenter and First Author of the work
- **Date:** September 30, 2023 – October 4, 2023
 - **Conference:** ECAI, European Conference on Artificial Intelligence
 - **Location:** Krakow, Poland
 - **Website:** <https://ecai2023.eu/acceptedpapers>
 - **Article:** Alamayreh, O., Wang, J., **Dimitri, G. M.**, Tondi, B., & Barni, M. (2023). "A Siamese Based System for City Verification", *ECAI 2023: 26th European Conference on Artificial Intelligence, September 30–October 4, 2023, Kraków, Poland–Including 12th Conference on Prestigious Applications of Intelligent Systems (PAIS 2023)*. Vol. 372. IOS Press, 2023.
 - **Presentation Type:** Poster
 - **Role:** Author
- **Date:** 4-10 June 2023
 - **Conference:** IEEE ICASSP 2023
 - **Location:** Rhodes, Greece
 - **Website:** <https://2023.ieeeicassp.org/>

- **Paper:** Alamayreh, O., **Dimitri, G. M.**, Wang, J., Tondi, B., & Barni, M. (2023, June). "Which country is this picture from? New data and methods for DNN-based country recognition." In ICASSP 2023-2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) (pp. 1-5).
- **Type of Presentation:** Oral
- **Role:** Author

- **Date:** 25-27 October 2023
 - **Conference:** MetroXRaine IEEE conference
 - **Location:** Milan, Italy
 - **Website:** <https://metroxraine.org/metroxraine2023/index>
 - **Paper:** **Dimitri, Giovanna Maria**, et al. "WeAIR: Wearable Swarm Sensors for Air Quality Monitoring to Foster Citizens' Awareness of Climate Change." 2023 IEEE International Conference on Metrology for eXtended Reality, Artificial Intelligence and Neural Engineering (MetroXRaine). IEEE, 2023.
 - **Type of Presentation:** Poster
 - **Role:** First Author

- **Date:** 25-29 September 2023
 - **Conference:** 2023 International Symposium on Nonlinear Theory and Its Applications
 - **Location:** Catania, Italy
 - **Website:** <https://nolta2023.org/>
 - **Papers:** Vitanza, E., **Dimitri, G.M.**, Bizzarri, F., & Mocenni, C. (2023). "Investigating the Impact of Extreme Rainfall Events on Individual Perception of Climate Change." In 2023 International Symposium on Nonlinear Theory and Its Applications NOLTA2023 (pp. 202-205).
 - **Type of Presentation:** Poster
 - **Role:** Author

- **Date:** 12-14 July 2023
 - **Conference:** IsAMI
 - **Location:** Guimarães, Portugal
 - **Website:** <http://www.wikicfp.com/cfp/servlet/event.showcfp?eventid=171660©ownerid=95447v>
 - **Paper:** Chessa, S., **Dimitri, G. M.**, Gori, M., & Kocian, A. (2023, July). "WoA: an infrastructural, web-based approach to digital agriculture." In International Symposium on Ambient Intelligence (pp. 113-122). Cham: Springer Nature Switzerland
 - **Type of Presentation:** Oral
 - **Role:** Author

- **Date:** 7-9 June 2023
 - **Conference:** WIRN 2023
 - **Location:** Vietri sul Mare, Salerno (Italy)
 - **Website:** <https://www.siren-neural-net.it/wirn-2023/program/>
 - **Paper:** Alessio Micheli, **Giovanna Maria Dimitri**, Luca Pedrelli, Marco Tranchida, Lorenzo Bachi, Lucia Billeci, Maria-Aurora Morales and Federico Vozzi, "A Preliminary Evaluation of Machine Learning Models for the Diagnosis of Brugada Syndrome from ECG-Extracted Features"
 - **Type of Presentation:** Oral

- **Role:** Author
- **Date:** 13-15 September 2023
 - **Conference:** I-Cities
 - **Presentation Type:** Oral Presentation
 - **Location:** Salerno, Italy
 - **Website:** <https://icities23.unisa.it/>
 - **Type of Presentation:** Oral
 - **Paper:** Chessa, S., **Dimitri, G. M.**, Gori, M., & Kocian, "A. PNRR Project AGRITECH: A Web of Agriculture connecting citizens with advanced services"
 - **Role:** Author
- **Date:** April 2022 and April 2024
 - **Conference:** EHRA 2022-2024
 - **Location:** In presence
 - **Type of Presentation:** Oral
 - **Papers:** Vozzi, F., **Dimitri, G. M.**, Piacenti, M., Zucchelli, G., Solarino, G., Nesti, M., ... & Micheli, A. (2022). "Artificial intelligence algorithms for the recognition of Brugada type 1 pattern on standard 12-leads ECG". *Europace*, 24(Supplement_1), euac053-558.
 - **Role:** Author
- **Date:** 5-7 October 2022
 - **Conference:** ESANN, European Symposium on Artificial Neural Networks
 - **Location:** Bruges, Belgium
 - **Website:** <https://www.esann.org/esann22programme>
 - **Article:** I presented and was rapporteur of these two papers
Andreini, P., & **Dimitri, G. M.** "Deep Semantic Segmentation Models in Computer Vision". In *ESANN 2022* (pp. 305-314) and Meconcelli, D., Bonechi, S., & **Dimitri, G. M.** (2022). "Deep learning approaches for mice glomeruli segmentation." In *ESANN 2022* (pp. 333-338).
 - **Presentation Type:** Oral
 - **Role:** Author and Speaker
- **Date:** 6 December 2021
 - **Conference:** IEEE Symposium Series on Computational Intelligence (SSCI) Proceedings
 - **Location:** Orlando (Florida, US)
 - **Paper:** "A preliminary evaluation of Echo State Networks for Brugada syndrome classification", **G. M. Dimitri**, C. Gallicchio, A. Micheli, M. -A. Morales, E. Ungaro and F.Vozzi
 - **Type of Presentation:** Oral
 - **Reference:** <https://attend.ieee.org/ssci-2021/program/>
 - **Role:** Author and Rapporteur of the work
- **Date:** 5-6 October 2021
 - **Conference:** TelexBe 2021, Second Workshop of Technology Enhanced Learning Environments for Blended Education
 - **Location:** Foggia, Italy
 - **Paper:** "SIAide2Voice: a new educational tool for students with visual disabilities". Ciano, G., **Dimitri, G. M.**, Rossi, A., Giacomini, G., Bonechi, S., Andreini, P., & Messori, E.

- **Presentation Type:** Oral
- **Role:** Author. Work short listed for the Best Paper Award

- **Date:** 22-24 September 2021
 - **Conference:** I-CiTies, 7th Annual Conference on ICT for Smart Cities & Communities
 - **Location:** Salerno
 - **Talk:** "BrAID: Brugada syndrome and Artificial Intelligence applications to Diagnosis", **G. M. Dimitri**, C. Gallicchio, A. Micheli, M. -A. Morales, E. Ungaro and F.Vozzi
 - **Presentation Type:** Oral
 - **Reference:** <https://icities2021.unisa.it/program.html>
 - **Role:** Supervisor and First Author of the Work

- **Date:** 1 December 2021
 - **Conference:** BBCC Meeting 2021 (<https://www.bbcc-meetings.it/program/>)
 - **Location:** Online
 - **Presentation Type:** Poster
 - **Reference:** "Revisiting the Inflammatory Pathway with Network Biology", <https://dx.doi.org/10.7490/f1000research.1118856.1>, **Giovanna Maria Dimitri**, Paolo Tieri, Tiziana Guarnieri, Luigi Manni, Davide Martelli, Claudia Sala , Anna Plaksienko, Claudia Angelini, Francesca Frascella, Lucia Napione, Christine Nardini
 - **Role:** Author and Speaker

- **Date:** 20-24 July 2020
 - **Conference:** The 42nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society
 - **Location:** Montreal, Canada
 - **Paper:** **Dimitri, Giovanna Maria**, et al. "Unsupervised stratification in neuroimaging through deep latent embeddings." 2020 42nd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC).
 - **Type of Presentation:** Oral
 - **Role:** Author and speaker

- **Date:** 15 July 2020
 - **Conference:** 11th conference of the European Study Group on Cardiovascular Oscillations, IEEE
 - **Paper:** "Introducing brain-heart crosstalks information in clinical decision support systems for TBI patients, through ICM+.", **Dimitri G.M.**, et al
 - **Type of Presentation:** Oral
 - **Reference:** https://esgco2020.unipi.it/sites/default/files/ESGCO2020_ScientificProgram.pdf
 - **Location:** Pisa, Italy (Held in virtual format due to the pandemic)
 - **Role:** Author and presenter of the work

- **Date:** 8-11 September 2019
 - **Conference:** International symposium on Intracranial pressure and Neuromonitoring
 - **Location:** KU Leuven (Belgium)
 - **Work:** "Analyzing cardio-cerebral crosstalks in an adult cohort from CENTER-TBI", **Dimitri G.M.** et al
 - **Reference:** <https://kuleuvencongres.be/icp2019/Articles/posters> Poster number 288

- **Presentation Type:** Poster
- **Role:** First Author
- **Date:** 8-14 June 2019
 - **Conference:** Organization for Human Brain Mapping (OHBM), 2019
 - **Location:** Rome
 - **Work:** "Netrank: A Multiplex Community Network approach for profiling Neurocognitive ageing", **Dimitri, G.M.**, Tsvetanov, K., Tyler, L., Lió, P.
 - **Reference:**
<https://www.humanbrainmapping.org/i4a/pages/index.cfm?pageid=3882> poster number 2586
 - **Presentation Type:** Poster
 - **Role:** First Author and Speaker
- **Dates:** 6-8 September 2018
 - **Conference:** CIBB, Computational Intelligence methods for Bioinformatics and Biostatistics
 - **Location:** FCT Universidad Lisbon, Lisbon, Portugal
 - **Paper:** "Neural models for Brain Networks Connectivity analysis", Kuszto, R., **Dimitri, G.M.**, Lió, P.
 - **Presentation Type:** Oral
 - **Role:** Speaker and author of the paper
- **Date:** 29 November-2 December 2016
 - **Conference:** International Workshop on Complex Network
 - **Location:** Milan
 - **Poster:** "A multilayer approach for the analysis of Intracranial Pressure and Heart Rate data in traumatic brain injuries patients"., **Dimitri, G.M.**, et al.
 - **Reference:** <https://link.springer.com/book/10.1007/978-3-319-50901-3>
 - **Role:** First author and poster presenter
- **Date:** 3-4 September 2016
 - **Conference:** NeuroInformatics
 - **Location:** Reading (UK)
 - **Poster:** "Computational challenges for the analysis of intracranial pressure and heart rate data in traumatic brain injuries patients", **Dimitri G.M.** et al.
 - **Reference:** ISBN:978-2-88919-953-2, DOI: 10.3389/978-2-88919-953-2
 - **Role:** First Author
- **Date:** 26-28 October 2016
 - **Conference:** Virtual Physiology Human
 - **Location:** Amsterdam (NL),
 - **Poster:** "Methodologies for the analysis of Intracranial Pressure and Heart Rate data in traumatic brain injuries patients", **Dimitri, G.M.** et al.
 - **Reference:** <https://www.vph-institute.org/news/virtual-physiological-human-2016-conference-%E2%80%93-extension-of-abstract-deadline.html>
 - **Role:** First Author and Poster Presenter
- **Date:** 15 July 2015
 - **Conference:** PPIG Psychology of Programming Language

- **Location:** Bournemouth, UK
- **Paper:** "Impact of Syntax Highlighting in Sonic Pi", **Dimitri. G.M.**
- **Reference:** <https://www.ppig.org/workshops/2015-annual-workshop/programme/>
- **Role:** Author and Poster Presenter

Presentations as an Invited/Guest Speaker

- **Date:** 4 October, 2024
 - **Conference:** Women in Computer Science
 - **Location:** Department of Mathematics and Computer Science, University of Padova, Padova (Italy)
 - **Talk:** Women in Computer Science and Gender Gap
 - **Website:** <https://www.youtube.com/watch?v=Ksx1jzeQsgU&t=1982s>
 - **Role:** Invited Speaker
- **Date:** 24 May, 2024
 - **Conference:** Symposium on AI and Chemistry
 - **Location:** La Sapienza University, Rome, Department of Chemistry
 - **Talk:** "Perspectives on Artificial Intelligence"
 - **Website:** https://www.soc.chim.it/it/sci_giovani/home
 - **Role:** Invited Speaker
- **Date:** 11 March 2024
 - **Conference:** Summit Clusit
 - **Location:** Milan
 - **Talk:** Round Table on Ethics and Generative AI
 - **Website:** <https://securitysummit.it/milano-2024#lista-speaker>
 - **Role:** Invited Speaker
- **Date:** 3 July 2023
 - **Conference:** SAICONFERENCE
 - **Location:** Certosa di Pontignano, University of Siena, Siena and SAIHUB
 - **Talk:** "Ethics and AI"
 - **Website:** saiconference.it
 - **Role:** Invited Speaker
- **Date:** 27 March 2023
 - **Conference:** CAREUS workshop on AI and Ethics
 - **Location:** University of Siena, Siena
 - **Talk:** "AI and Ethics"
 - **Website:** <https://www.unisi.it/ricerca/comitato-la-ricerca-etica-nelle-scienze-umane-e-sociali-%E2%80%93-careus>
 - **Role:** Invited Speaker
- **Date:** 15 January 2021
 - **Conference:** GIRDm, Workshop in Artificial Intelligence in NMR, MRI and Neuroscience (<https://gidrm2020.uniroma2.it/>)
 - **Location:** Tor Vergata University, Rome
 - **Talk:** "Brain MRI segmentation and reconstruction"
 - **Role:** Invited Speaker

- **Date:** 10 March 2017 and 5 June 2018
 - **Seminar:** Brain Physics Seminar
 - **Location:** Neurosurgery division, Addenbrooke's Hospital, University of Cambridge, Cambridge (UK).
 - **Talk:** Seminar 2017: "Simultaneous transients of Intracranial Pressure and Heart Rate in Traumatic Brain injury: Methods of Analysis" and Seminar 2018: "A predictor model for mortality in pediatric brain traumatic patients"
 - **Role:** Invited Speaker

Presentations and invitations from the media and to scientific dissemination events

- **Date:** 25 September 2024
 - **Event:** Bright Women
 - **Location:** Palazzo Strozzi, Tuscany Region
 - **Talk:** "Perspectives on Artificial Intelligence", round table with Tuscan universities for the discussion of the topics
 - **Website:** <https://bright-night.it/bright-women-ricerca-per-il-ben-essere-globale/>
 - **Role:** Invited Speaker
- **Date:** 3 April 2024
 - **Event:** Inclusive Language, National Festival of the Italian Language on the Way
 - **Location:** Unistrasi, Municipality of Siena
 - **Reference:** <https://www.unistrasi.it/public/articoli/8209/Programma%20Parole%20in%20Cammino%202024.pdf>
 - **Role:** Invited Guest Speaker together
- **Date:** 20 February 2024
 - **Event:** Round Table at Siena Tv, local TV channel
 - **Location:** Local TV Channel
 - **Reference:** <https://www.youtube.com/watch?v=akidjG6rl8c&t=2009s>
 - **Role:** Invited Speaker (<https://www.radiosienatv.it/lintelligenza-artificiale-il-tema-al-centro-della-puntata-di-in-diretta/>)
- **Date:** 9 February 2024
 - **Round Table:** Artificial Intelligence
 - **Location:** Municipality of Siena
 - **Reference:** <https://www.comune.siena.it/node/5528>
 - **Role:** Invited as Guest Speaker with Prof. Marco Gori (UNISI) and Prof. Antonio Chella (UniPA)
- **Date:** 13 November 2023
 - **Round Table:** Wearable Music
 - **Location:** Accademia dei Fisiocritici
 - **Reference:** https://www.fisiocritici.it/images/pdf/Eventi/2023/2023.11.13_Loc._Musica_da_indossare.pdf
 - **Role:** Invited Guest Speaker
- **Date:** 8 September 2023
 - **Event:** Zapping Radio Program
 - **Venue:** Rai Radio 1 Radio Channel

- **Reference:** The recording of the interview is available: <https://www.raiplaysound.it/audio/2023/08/ZAPPING-793267ec-13b4-42e5-99be-8a91fd5eea6e.html?ts=3167>
- **Role:** Invited Guest Speaker

- **Date:** 28 September 2023
 - **Conference:** Bright Night Siena
 - **Venue:** Round Table on AI, University of Siena, together with Prof. Gori
 - **Reference:** <https://www.youtube.com/watch?v=f84n2GDIANI&t=9s>
 - **Role:** Invited Guest Speaker

- **Date:** May 25, 2023
 - **Conference:** AI and Biomedical Data
 - **Location:** Department of Biotechnology, Chemistry and Pharmacy, University of Siena, Siena (Italy)
 - **Reference:** <https://usopsunisi.wordpress.com/#jp-carousel-910> and https://www.facebook.com/usienaschoolofpharmacy/?locale=it_IT
 - **Role:** Invited by the student society of the Department of Biotechnology, Chemistry and Pharmacy of the University of Siena to hold a Seminar on AI applications to the biomedical field.

- **Date:** 30 November 2022
 - **Conference:** BTO: Be Travel Online
 - **Location:** Forum della Leopolda, Florence
 - **Talk:** "A.I. between synthetic data and unreal time"
 - **Reference:** <https://www.bto.travel/speaker/giovanna-maria-dimitri/>
 - **Role:** Invited Speaker

- **Date:** 10 May 2022
 - **Event:** Pint of Science, Maudit Pub, Siena
 - **Venue:** Maudit Pub, Siena
 - **Talk:** "An interdisciplinary journey into the world of artificial intelligence: between biomedical data and forensic analysis"
 - **Role:** Invited Speaker

- **Date:** 11 October 2021
 - **Conference:** Virtual Studium
 - **Location:** Online
 - **Talk:** "Is it enough to see to believe?", talk on deepfakes and artificial intelligence. The talk is available has: https://www.youtube.com/watch?v=2fQtZXHwIYY&ab_channel=Universit%C3%A0diSiena
 - **Role:** Invited Speaker with Prof. Benedetta Tondi (DIISM researcher)

- **Date:** 21-22 November 2019
 - **Conference:** "V NaplesMeeting"
 - **Location:** Naples
 - **Talk:** "Deep Learning Methods for multiple sclerosis"
 - **Role:** Invited Speaker at the Workshop on machine learning and neuroimaging, valid as ECM for healthcare professionals.

- **Date:** 5 July 2016
 - **Event:** PhD Microsoft Research Summer School
 - **Location:** Microsoft Research Summer School, Cambridge (UK)
 - **Title:** "Developing computational methodologies for brain modelling and brain data analysis"
 - **Role:** Author and Poster Speaker
- **Date:** 28 October 2016 and 2 October 2015
 - **Conference:** Tuscany Day of *Bioinformati*ha
 - **Location:** Florence and Siena
 - **Talk:** "Methodologies for the analysis of Intracranial Pressure and Heart Rate data in traumatic brain injuries patients" and "Predicting drug side effects from a combination of Chemical and Biological profiles"
 - **Role:** Poster presenter
- **Date:** 2 December 2015
 - **Conference:** Launch of the Cambridge Coding Academy's new E-learning platform
 - **Location:** Department of Computer Science, University of Cambridge (Cambridge, UK)
 - **Description:** Tutor at the presentation of the new platform, with a visit from the Duke of York's HRM.
 - **Role:** Presentation of the Department's Artificial Intelligence research activities
- **Date:** 9 April 2015
 - **Event:** Poster Contest BCS Women Lovelace colloquium
 - **Location:** Informatics Forum, Department of Computer Science, Edinburgh
 - **Title:** "Predictions of Protein Functions Using Semantic Based Regularization"
 - **Role:** Selected for the poster presentation, and finalist of the poster contest

Dissemination and Outreach Activities

- **Date:** December 2023-ongoing
 - **Role:** Contributor for GenS (<https://www.instagram.com/generazionestem/>), a social community for inspiring women in STEM.
 - **References of the articles:** <https://www.rizzolieducation.it/news/ma-quanto-inquina-lintelligenza-artificiale/>
- **Date:** December 2023-ongoing
 - **Role:** I am the regional director of the Oxbridge Alumni society. The Society promotes event in Italy to stimulate the network of University of Oxford and University of Cambridge alumni, who are now based back in Italy.
 - **References:** <https://www.italianoxbridgesociety.com/tuscany>
- **Date:** March 2023-ongoing
 - **Role:** Part of the Women in Clusit Community of the Cybersecurity Women Network
 - **References:** https://www.linkedin.com/posts/women-for-security_cyberlady-community-innovazione-activity-7181924913123901440-Zk0y/?originalSubdomain=it
- **Date:** Academic Year 2019/2020 – in progress
 - **Role:** Representative of the Researchers of the **Unisi-IA network**

Description: Since October 2020 I have been the Representative of the Young Researchers of the Unisi-ia Network, led by prof. Marco Gori.

- **References:** <https://sites.google.com/unisi.it/unisi-ia>
- **Date:** Academic Year 2021/2022 – in progress
 - **Role:** Founder and Organizer of the Women@DIISM Community
 - **Description:** Since October 2021 I have been one of the founders and organizer of events for the Women@DIISM community
 - **References:** <https://womendiism.unisi.it/>

Teaching activity carried out at university level in Italy or abroad

As far as the teaching activity carried out at university level in Italy is concerned, I am in charge of the compulsory Business Intelligence course for the master's degree in Management Engineering starting from the academic year 2019/2020. The course consists of 42 hours of lectures, including both theoretical lessons and programming lessons in R language.

The course has been included in the elective courses that can be included in the Experience Design course of study (DISPOC, University of Siena), curriculum Technologies and Methods for Experience Design.

Furthermore, being the owner of the course, I am responsible for carrying out the exams and their relative registration (on average every year there are about 30 students enrolled in the course). The course is held in English. I have also been in charge of 4 courses at National Research Doctorates. In January 2023 and March 2024 I held two courses, of 10 hours each, respectively for the PhD in Biochemistry and Molecular Biology, at the University of Siena. In September 2023 I held a PhD course for the Department of Information Engineering and Mathematical Sciences on Generative AI Models, for biomedical applications for a total of 16 hours. In February-March 2024 I held a course for the PhD in Linguistics of the University for Foreigners of Siena, on Automatic Extraction of Linguistic Corpora with database query methods. The course for the PhD in Biochemistry and Molecular Biology, and the course for the PhD in Linguistics of the University for Foreigners of Siena have been reconfirmed for 2025.

At foreign universities, I held supervisory lectures for the Bioinformatics course of the Bachelor in Computer Science, at the Department of Computer Science of the University of Cambridge in the years 2015, 2016 and 2017, for a total of 30 hours. In addition, since June 2024 I am a Lecturer at the Institute of Continuing Education of the University of Cambridge (UK) as an expert in Machine Learning and Data science for the Data Science Accelerator Course.

University Courses for Bachelor's and Master's Degree Courses for Italian Universities

- **From 1/03/2023-in progress**
 - **Role:** Lecturer
 - **Course name:** Business Intelligence, Academic discipline: ING-INF/05
 - **Number of Hours:** 42 hours
 - **Name of the Degree Programme:** Master's Degree in Management Engineering. The course has been included in the elective courses that can be included in the Experience Design course of study (DISPOC, University of Siena), curriculum Technologies and Methods for Experience Design.
 - **Location:** Department of Information Engineering and Mathematical Sciences (DIISM), University of Siena
- **From 22/03/2022 to 30/09/2022**
 - **Role:** Lecturer in Charge, Adjunct Lecturer
 - **Course Name:** Business Intelligence, Industry: ING-INF/05
 - **Number of Hours:** 42 hours
 - **Name of the Degree Programme:** Master's Degree in Management Engineering, Master's Degree in Management Engineering
 - **Location:** Department of Information Engineering and Mathematical Sciences (DIISM), University of Siena

- **From 01/03/2021 to 30/09/2021**
 - **Role:** Lecturer in Charge, Adjunct Lecturer
 - **Course Name:** Business Intelligence, Industry: ING-INF/05
 - **Number of Hours:** 42 hours
 - **Name of the Degree Programme:** Master's Degree in Management Engineering, Master's Degree in Management Engineering
 - **Location:** Department of Information Engineering and Mathematical Sciences (DIISM), University of Siena
- **From 02/03/2020 to 30/09/2020**
 - **Role:** Lecturer in Charge, Adjunct Lecturer
 - **Course Name:** Business Intelligence, Industry: ING-INF/05
 - **Number of Hours:** 42 hours
 - **Name of the Degree Programme:** Master's Degree in Management Engineering, Master's Degree in Management Engineering
 - **Location:** Department of Information Engineering and Mathematical Sciences (DIISM), University of Siena

University Courses for Italian National Doctorates

Note: the courses of the National Doctorate in Biochemistry and Molecular Biology and the course for the National Doctoral Program of the University for Foreigners of Siena have been confirmed and will be repeated in 2025.

- **Date:** March 2025
 - **Role:** Lecturer for the National Doctoral Program in Historical, Educational and Italian Linguistics
 - **Course Name:** An Introduction to Computational Linguistics and Crawling the Web for Linguistic Corpora, Unistrasi, Siena (Italy)
 - **Location:** University for Foreigners of Siena, Siena, (Italy)
 - **Number of hours:** 10 hours
- **Date:** from 18/03/2024 to 15/04/2024
 - **Role:** Lecturer for the National PhD Program in Biochemistry and Molecular Biology
 - **Course Name:** Introduction to Data Analysis and Machine Learning with R
 - **Number of hours:** 10 hours
 - **Course:** Biochemistry and Molecular Biology, coordinator Prof. Lorenza Trabalzini
 - **Location:** Polo Scientifico, San Miniato, University of Siena, Siena (Italy)
 - **Website:** <https://www.dbcf.unisi.it/it/didattica/post-laurea/dottorati-di-ricerca/dottorato-di-ricerca-biochemistry-and-molecular-12>
- **Date:** from 10/02/2024 to 13/03/2024
 - **Role:** Lecturer for the National Doctoral Program in Historical, Educational and Italian Linguistics
 - **Course Name:** Methods for automatic search on linguistic corpora, Unistrasi, Siena (Italy)
 - **Location:** University for Foreigners of Siena, Siena, (Italy)
 - **Number of hours:** 10 hours
 - **Website:** https://dottorato.unistrasi.it/207/545/Calendario_della_didattica.html

- **Date:** from 25/09/2023 to 29/09/2023
 - **Role:** Lecturer for the National PhD Program in Information Engineering and Mathematical Sciences
 - **Course Name:** Generative Models for Biomedical Applications
 - **Number of Hours:** 12 hours
 - **Course:** PhD in Information Engineering
 - **Location:** Department of Information Engineering and Mathematical Sciences, University of Siena, Siena (Italy)
 - **Website:** <https://phdies.diism.unisi.it/corsi/corso.php?id=191>
- **From** 15/01/2023 to 30/01/2023
 - **Role:** Lecturer for the National PhD Program in Biochemistry and Molecular Biology
 - **Course Name:** Introduction to Data Analysis and Machine Learning with R
 - **Number of hours:** 10 hours
 - **Course:** Biochemistry and Molecular Biology, coordinator Prof. Lorenza Trabalzini
 - **Scientific Place:** P, San Miniato, University of Siena, Siena (Italy)
 - **Website:** <https://www.dbcf.unisi.it/it/didattica/post-laurea/dottorati-di-ricerca/dottorato-di-ricerca-biochemistry-and-molecular-12>

University Courses for Bachelor's and Master's Courses for Foreign Universities

- **Date:** December 2024-February 2025
 - **Role:** Lecturer for the Institute of Continuing Education for the Data Science Accelerator Course
 - **Institution:** University of Cambridge, Cambridge, UK
 - **Website:** <https://onlinecareeraccelerators.ice.cam.ac.uk/cambridge-data-science-career-accelerator>
 - **Topic:** Machine Learning and Data Science, programming with Python
 - **Number of Hours:** 20 hours
- **Date:** September 2024-October 2024
 - **Role:** Lecturer for the Institute of Continuing Education for the Data Science Accelerator Course
 - **Institution:** University of Cambridge, Cambridge, UK
 - **Website:** <https://onlinecareeraccelerators.ice.cam.ac.uk/cambridge-data-science-career-accelerator>
 - **Topic:** Machine Learning and Data Science, programming with Python
 - **Number of Hours:** 20 hours
- **Date:** June 2024-July 2024
 - **Role:** Lecturer for the Institute of Continuing Education for the Data Science Accelerator
 - **Institution:** University of Cambridge, Cambridge, UK
 - **Website:** <https://onlinecareeraccelerators.ice.cam.ac.uk/cambridge-data-science-career-accelerator>
 - **Topic:** Machine Learning and Data Science, programming with Python
 - **Number of Hours:** 20 hours

- **From** 06/10/2015 to 04/12/2015
 - **Role:** Supervision and Teaching, for the Bioinformatics course (Principal Lecturer: Prof. Pietro Liò)
 - **Location:** Department of Computer Science, University of Cambridge, Cambridge (UK)
 - **Number of Hours:** 9 hours
- **From** 04/10/2016 to 02/12/2016
 - **Role:** Supervision and Teaching, for the Bioinformatics course, (Principal Lecturer: Prof. Pietro Liò)
 - **Location:** Department of Computer Science, University of Cambridge, Cambridge (UK)
 - **Number of hours:** 12 hours
- **From** 03/10/2017 to 01/12/2017
 - **Role:** Supervision and Integrative Teaching, for the Bioinformatics course, (Principal Lecturer: Prof. Pietro Liò)
 - **Location:** Department of Computer Science, University of Cambridge, Cambridge (UK)
 - **Number of hours:** 9 hours

Supervision of PhD Students

- Co-Supervisor of Dr. Irene Caiazzo, together with Prof. Liana Tronci (Unistrasi). PhD Thesis on the automatic crawling and development of linguistic corpus from Instagram for the study of inclusive languages on social Network
- Co-Supervisor of Dr. Iacopo Caporossi, DIISM, Unisi (Together with Prof. Chiara Mocenni). Thesis on development of computational AI and agent based models for psycho-pathological diseases.

Supervision of Master and Bachelor Students

- I was **the first supervisor** of 17 master's degree these for the master's degree in Engineering Management and for the master's degree in Computer and Automation Engineering. I have been the supervisor of 2 Bachelor Degree in Computer and Automation Engineering December 2024.
- I have participated as an official member of the commission in more than 15 graduation sessions of the MASTER'S DEGREE COURSE IN ENGINEERING MANAGEMENT D.M. 270/04.
- I have been an internship tutor for more than 15 students of the master's degree course in Engineering Management.

Further teaching and supervision of students in Italian and foreign extra-university courses

- **Date:** November 2022
 - **Role:** Teacher for the Digi-Skills course Funded by the Tuscany Region
 - **Location:** Online
 - **Topic:** Machine Learning and Data Science. Programming with R
 - **Number of hours:** 15 hours
- **Date:** Academic years 2015/2016, 2017/2018 and 2018/2019
 - **Role:** Subject Expert for the Bioinformatics Course (teacher Prof. Monica Bianchini)
 - **Location:** Department of Information Engineering and Mathematical Sciences of the University of Siena, Siena (Italy)
 - **Number of Hours:** 1 hour (2015/2016), 4 hours (2017/2018) and 4 hours (2018/2019).
- **Date:** Academic Year 2017/2018
 - **Role:** Co-Supervisor of the Master's thesis (Part III) in Computer Science
 - **Location:** Department of Computer Science, University of Cambridge, Cambridge (UK)

- **Description:** The thesis was based on the development of an LSTM model for age prediction from fMRI data. The student obtained full marks and honors.
- **Date:** Academic Year 2017/2018
 - **Role:** Participation in the commission for the presentation of Master's and Bachelor's theses for students of the Department of Computer Science of the University of Cambridge (Cambridge, UK).
 - **Location:** Department of Computer Science, University of Cambridge, Cambridge (UK)
- **Date:** Academic Year 2018/2019
 - **Role:** Master's thesis supervisor of the MSc in Computational Cognitive Neuroscience, Goldsmiths University of London, UK
 - **Venue:** Goldsmiths University of London, UK
 - **Thesis :** Predicting Side Effects of Brain Drugs Using Machine Learning. The student has obtained maximum marks and distinction.
- **Date:** from 1/08/2018 to 31/08/2018
 - **Role:** Computer Science teaching, and project supervision on Machine Learning and Alzheimer's
 - **Location:** Pembroke-King's Summer School, University of Cambridge (Cambridge, UK)
 - **Number of Hours Taught:** 6 hours
- **Date:** from 2017
 - **Role:** Collaborator with Start-Ups dedicated to teaching AI
 - **Venue:** Cambridge Immerse and Cambridge Spark, Cambridge (UK)
 - **Description:** Online teaching, preparation of teaching material, webinars and seminars
- **Date:** From 10/08/2015 to 14/08/2015
 - **Role:** Summer School Teaching for Coding Summer School for Girls.
 - **Location:** Department of Computer Science, University of Cambridge, Cambridge, UK
 - **Number of Hours Taught:** 40 hours
- **Date:** August 2016 and August 2020
 - **Role:** Lead Teacher and organizer of the summer school in Coding Summer School, Organized by the Department of Computer Science and Cambridge Coding Summer Schools
 - **Location:** Department of Computer Science, University of Cambridge, Cambridge, UK
 - **Number of Hours Taught:** 80
- **Date:** 18/06/2015
 - **Role:** Tutor for the Sonic Pi Software. Workshop "Women into Mathematics" organized by the Raspberry Pi Foundation
 - **Location:** St John's College, University of Cambridge, UK
 - **Number of Hours Taught:** 4
- **Date:** 29/06/2015
 - **Role:** Computer Science Teacher at Computer Science Outreach Summer School Cambridge
 - **Venue:** Trinity Hall, University of Cambridge, Cambridge, UK
 - **Number of hours taught:** 4

Visiting periods at Foreign Institutions of High Prestige

- **Date:** from 3/12/2023 to 08/12/2023
 - **Role:** Visiting at Goethe University, Computer Science Department, Prof. Gemma Roig
 - **Location:** Frankfurt, Germany
 - **Description:** I was the winner of the competitive call for a research fellowship in 2023 funded by the DAAD AiNet fellowship on Generative AI topics. The fellowship provided for the awarding of a scholarship to visit a German research center of excellence, after passing a selection. I was interviewed and visited Prof. Gemma Roig's Group at Goethe University in Frankfurt. The acceptance rate for this competitive fellowship is approximately 20%.
- **Date:** from 10/08/2019 to 20/08/2019

- **Role:** Visiting at MILA Institute (<https://mila.quebec/en/>)
- **Venue:** MILA Institute, Montreal (CANADA)
- **Description:** I was awarded the Clare Hall Research Fund funded by Clare Hall College of the University of Cambridge, for a period of visiting to spend at the Center of World Excellence, MILA Research Institute, Montreal Canada. During the visit I had research contacts with Dr. Joseph Cohen, (Prof. Yoshua Bengio group) and with the research groups present at MILA.

Participation and Election in associations of high academic prestige

- **Date:** from October 2024-in progress
 - **Role:** Member of the Task Force of the Complex Systems Society
 - **Description:** I was elected member of the task force of the CCS for the realization of the journal of the community, together with the realization of a manifesto and guidelines for a publications and a journal of the society.
 - **Relevance:** International
 - **Website:** <https://cssociety.org/about-us/council>
- **Date:** from 20 November 2022-in progress
 - **Role:** Council Member of the Complex Systems Society
 - **Description:** I was elected, after competitive voting, to join the board of directors of the Complex System Society, from November 2022 until the end of 2024. The association is the world's most prestigious association in the field of complex systems, and unites engineers, physicists and mathematicians.
 - **Relevance:** International
 - **Website:** <https://cssociety.org/about-us/council>

Associate Editor and Reviewer Roles: Prestigious Roles in Scientific Journals Peer Reviewer

- **Date:** from 1/06/2024-in progress
 - **Role:** Associate Editor
 - **Journal:** IEEE Transactions on Technology and Society
 - **Publisher:** IEEE
 - **Description:** I am in charge of managing the review process of the articles submitted to the journal. I also take care of the management of the acceptance and the total management of the review process
 - **References:** <https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=8566059>
- **Date:** from 1/03/2022-in progress
 - **Role:** Associate Editor
 - **Journal:** Neurocomputing
 - **Publisher:** Elsevier
 - **Description:** I am in charge of managing the review process of the articles submitted to Neurocomputing (an average of about 7 articles per month). I also take care of the management of the acceptance and the total management of the review process
 - **References:** <https://www.sciencedirect.com/journal/neurocomputing/about/editorial-board>
- **Date:** 21/09/2021-ongoing

- **Role:** Review Editor
- **Journal:** Frontiers in Computational Genomics
- **Publisher:** Frontiers
- **Description:** Management of the review process of about 4 monthly articles.
- **References:** <https://loop.frontiersin.org/people/1486182/overview>

I am also active as a reviewer for numerous high-prestige journals, such as Scientific Reports, IEEE Transactions on Neural Networks and Learning Systems, IEEE Access and numerous high-prestige conferences such as ECML-PKDD, ECAI, Neurips.

Languages Spoken: **English:** fluent. First Certificate obtained with A grade. IELTS: grade 8 , **Italian:** mother tongue, **French:** beginner level

Programming Languages

Advanced knowledge: C++, R, Matlab, Latex, Python (Keras libraries, Tensorflow)

Good knowledge: html, php, javascript

Package development: I am the author of the R package "DrugClust" (Released 23 April 2016), available on CRAN publicly starting from April 23, 2016.

Other Interests

1. August 2017: I recorded the soundtrack of the documentary "Existential Risk" by director Gary Walkow. Music by Eric Satie. The film is currently being made in international film documentaries.
2. I am a life member of Clare Hall College, University of Cambridge, Cambridge (UK)
3. I have been practicing fencing for 20 years nationally and internationally. I represented the University of Cambridge in the first team, from 2015 to 2019, winning the highest English university sports award (Full Blues) for winning the national university championship and the Varsity match against Oxford for 3 years. Since 30 June 2022 I have been a SNAQ Level I Fencing Instructor, after having taken and passed the National Fencing Instructor exam at CONI (Rome). Since June 2023 I have been a National Level Fencing Instructor (SNAQ LEVEL II INSTRUCTOR) with a diploma from the National Fencing Academy. I teach and train fencing at a Siennese sports club at a competitive level. I have completed the courses for the training of SNAQ Level III technicians.
4. I was a member of the student committee of my College (Clare Hall) from A.Y. 2014-2015 to 2017/2018 as secretary, vice president and other positions, including the organization of seminars and conferences.
5. I participated in the Summer School and studied Jazz singing at the Siena Jazz Foundation since 2015 and in the Jazz improvisation course organized by the University of Cambridge at Maddingley Hall (ICE) in August 2013. I have performed regularly in concerts in Italy and Cambridge.
6. In 2015 I was a finalist in the Graduate Photo Competition of the University of Cambridge and in 2010 in the Photo Competition of the Department of Information Engineering and Mathematical Sciences. My photo is still currently used on the DIISM website (<https://www.diism.unisi.it/it/dipartimento/presentazione> the photo of the book on Siena). I was a finalist in the Computer Laboratory Photo Competition of the Department of Computer Science at the University of Cambridge in 2020 and 2021 (<https://www.cst.cam.ac.uk/view-computer-science> and <https://www.cst.cam.ac.uk/capturing-computer-science>)

