

University Academic Curriculum Vitae

Personal information Name: Madalina Georgeta Ciobanu

- Education**
- 2005, Master of Computer Science, University of Salerno
 - 2010 Post-Graduate Diploma in "Computer Science and Multimedia in School: teaching strategies and methodologies", Interuniversity Consortium, Rome
 - 2011 Master in "Models for designing in different teaching methodologies"- II Edition, Pegaso Telematic University
 - 2018, PhD in Sciences and Technologies of Information, Complex Systems and Environment, University of Salerno
 - 2023 Information Engineer - State Exam(Section A) II session 2023 University of Molise

- Present appointment**
- Teacher
Employer: Ministry of Education
Period: 01/09/2014 – today

Professional experience

From / to	Job title	Name of academic Institution
15/01/2024 14/07/2025	Research assistant SSD: INF/01	University of Salerno
09/2009 – 07/2014	Teacher	Ministry of Education

Research

Research is focused in the field of computer science applied to data security and anomaly analysis in information systems, data life cycle modeling, artificial intelligence, computer educational. In addition, contributed to the organization of programming competitions for primary and lower secondary school students, with the aim of promoting computational thinking and programming skills among young people

Research at leading italian or foreign institutes:

Context Aware Intelligent Systems (cAIs Lab)
Scientific Manager: Prof. Genoveffa Tortora

Olimpiadi di Informatica(AICA)
Collaboration with the Research Group for the Informatics Olympiad

Information management in software application developmen
Collaboration with the Research Group for the project "Information management in software application development" - Prof. Vincezo Deufemia

Software technologies for the development of advanced IT services
Collaboration with the Research Group for Software technologies for the development of advanced IT services - Prof. Andrea De Lucia

Experience in academic teaching

- [2024 – 2025]
Computer Networks - INF/01 (56 hours)
Bachelor's Degree in Computer Science - University of Molise
- [2024 – 2025]
Computer Architecture - INF/01(24 hours)
Bachelor's Degree in Computer Science - University of Salerno
- [2024 – 2025]
Medical Informatics - ING-INF/05 (30 hours)
Bachelor's Degree in Nursing - University of Molise
- [2023 – 2024]
Medical Informatics - ING-INF/05 (30 hours)
Bachelor's Degree in Nursing - University of Molise
- [2022 – 2023]
Medical Informatics - ING-INF/05 (30 hours)
Bachelor's Degree in Nursing - University of Molise
- [2021 – 2022]
Medical Informatics - ING-INF/05 (30 hours)
Bachelor's Degree in Nursing - University of Molise
- [2020 – 2021]
Medical Informatics - ING-INF/05 (30 hours)
Bachelor's Degree in Nursing - University of Molise
- [2019 – 2020]
Medical Informatics - ING-INF/05 (30 hours)
Bachelor's Degree in Nursing - University of Molise
- [2018 – 2019]
Medical Informatics - ING-INF/05 (30 hours)
Bachelor's Degree in Nursing - University of Molise
- [2017 – 2018]
Medical Informatics - ING-INF/05 (30 hours)
Bachelor's Degree in Nursing - University of Molise

Publications

Journal articles in refereed academic journals

[2025]

Assessing the effectiveness of ROUGE as unbiased metric in Extractive vs. Abstractive summarization techniques
Alessia Auriemma Citarella, Marcello Barbella, Madalina G. Ciobanu, Fabiola De Marco, Luigi Di Biasi , Genoveffa Tortora, Journal of Computational Science Volume 87, May 2025, 102571
DOI: [10.1016/j.jocs.2025.102571](https://doi.org/10.1016/j.jocs.2025.102571)

Conference proceedings

[2025]

Seeing is Believing: Assessing and Enhancing Android Privacy
Michele Guerra, Roberto Milanese, Madalina G Ciobanu
Information Systems Security and Privacy: 9th International Conference, ICISSP 2023, Lisbon, Portugal, 22–24 February, 2023, and 10th International Conference, ICISSP 2024, Rome, Italy, February 26–28, 2024, Revised Selected Papers
DOI: [10.1007/978-3-031-89581-0_7](https://doi.org/10.1007/978-3-031-89581-0_7)

[2024]

Design of a Multimodal Robot-Based Conversational Interface: A Case Study with FURHAT
R. Francese, MG. Ciobanu E. Clemente, G.Tortora HCI-International 2024 pp 299–311,
DOI: [10.1007/978-3-031-76803-3_17](https://doi.org/10.1007/978-3-031-76803-3_17)

[2024]

LLMs for Autism Treatment: Current Trends and Emerging Strategies
M.G. Ciobanu, C. Tucci, F. Fasano, IEEE International Conference on Bioinformatics and Biomedicine (BIBM)
DOI: [10.1109/BIBM62325.2024.10822015](https://doi.org/10.1109/BIBM62325.2024.10822015)

[2024]
Exploring the Diagnostic Potential of LLMs in Schizophrenia Detection through EEG Analysis
M. Guerra, R. Milanese, M. Deodato, M.G. Ciobanu, F. Fasano, IEEE International Conference on Bioinformatics and Biomedicine (BIBM)
DOI: [10.1109/BIBM62325.2024.10821830](https://doi.org/10.1109/BIBM62325.2024.10821830)

[2024]
Giochi di Fibonacci Year II: Competitive Blocks Programming for Young Students
G. Audrito, S. Capecchi, M. Ciobanu, L. Laura, Olympiads in Informatics Journal Vol. 18, 1-24
DOI: [10.15388/loi.2024.01](https://doi.org/10.15388/loi.2024.01)

[2023]
Giochi di Fibonacci: Competitive Programming for Young Students
G. Audrito, M. Ciobanu, L. Laura, Olympiads in Informatics Journal Vol. 17, 19-31
DOI: [10.15388/loi.2023.02](https://doi.org/10.15388/loi.2023.02)

[2020]
Accidental Sensitive Data Leaks Prevention via Formal Verification
Ciobanu, M.; Fasano, F.; Martinelli, F.; Mercaldo, F. and Santone, A. In Proceedings of the 6th International Conference on Information Systems Security and Privacy - ForSE, ISBN 978- 989-758-399-5; ISSN 2184-4356, pages 825-834.
DOI: [10.5220/0009380608250834](https://doi.org/10.5220/0009380608250834)

[2019]
A Data Life Cycle Modeling Proposal by Means of Formal Methods. Madalina G. Ciobanu, Fausto Fasano, Fabio Martinelli, Francesco Mercaldo, Antonella Santone: Asia CCS '19: Proceedings of the 2019 ACM Asia Conference on Computer and Communications Security July 2019 Pages 670–672
DOI: [10.1145/3321705.333100](https://doi.org/10.1145/3321705.333100)

[2019]
Model Checking for Data Anomaly Detection
KES 2019 - Madalina G. Ciobanu, Fausto Fasano, Fabio Martinelli, Francesco Mercaldo, Antonella Santone:: 1277-1286
DOI: [10.1016/j.procs.2019.09.297](https://doi.org/10.1016/j.procs.2019.09.297)

[2013]
A Tool for multimodal fusion of brain PET and MR
Frontiere Digitali: dal Digital Divide alla Smart Society (2013) – Merola M; Capobianco G; Ciobanu M G; Fasano F

[2018]
Enhancing Data Warehouse management through semi-automatic data integration and complex graph generation
M.G. Ciobanu – PhD
DOI: [10.14273/unisa-1263](https://doi.org/10.14273/unisa-1263)

Further data

Presentations at scientific conferences

- 26TH International Conference On Human-Computer Interaction Speaker - "Design of a Multimodal Robot-Based Conversational Interface: A Case Study with FURHAT" - 29/06/2024 – 04/07/2024 Washington DC, USA)

Statement of interest Curiosity and the desire to understand how things work have accompanied me since I was little. As I grew up, computer science continued to fascinate me more and more. This passion motivated me to undertake studies and activities in the field of computer science and teaching. I love sharing my knowledge and interacting with others, and for this reason I have always seen teaching as an opportunity to stimulate students' curiosity and transmit to them the passion for technology. I believe that my education and experience can positively contribute to the research environment of the University of Bolzano, especially through collaboration with colleagues and students for innovation and shared growth.

Language competence Italian/Romanian: Mother Tongue

English: B1 Cambridge English Certificate – Accademia Britannica Campobasso (2015)

Memberships Referee for several international journals:

- "Expert System with Applications"-Elsevier
- "Image and Vision Computing Journal"-Elsevier
- "Transactions on Learning Technologies"-IEEE

Other

- Fibonacci Games - Founding member of Fibonacci Games – project for the dissemination of computer science in primary and secondary schools
Link: <https://fibonacci.olinfo.it>

- Dantroide - Team member creating robots with Dantesque features
Link: <https://dantroide.iti-marconi.edu.it>

04/09/2025

Madalina G. Ciobanu