



Curriculum Vitae



PERSONAL INFORMATION

Daniela-Maria Cristea



daniela.cristea@uab.ro

Gender: F

Date of birth: 05-03-1989

IDs in Research Indexing Services

WOS, Scopus, ACM Digital Library, Google Scholar, DBLP, ResearchGate

<https://www.webofscience.com/wos/author/record/HZL-2940-2023>

<https://www.scopus.com/authid/detail.uri?authorId=57209212099>

<https://scholar.google.com/citations?user=jx9x1tkAAAAJ&hl=ro>

<https://www.researchgate.net/profile/Daniela-Cristea>

My research interests include Software Engineering and Data Analysis for addressing real-world problems. My Ph.D. thesis aim to understanding, design and development of genetic algorithms, metaheuristics and deep learning in solving combinatorial problems within the Computational Intelligence.

PROFESSIONAL EXPERIENCE

28.02.2022 - ongoing

University Assistant

1 December 1918 University, Faculty of Computer Science and Engineering, Alba Iulia, Romania

Description: Department of Computer Science, Mathematics and Electronics

Responsibilities: Teaching and researching, mentoring of students and activities carried out within the academic community. Evaluation of students through seminar materials, laboratory, exams, projects and coordination of the bachelor's thesis.

10.2016 - 02.2022

Adjunct Professor

Babeş Bolyai University, Faculty of Mathematics and Computer Science, Cluj Napoca, Romania

Description: <https://www.cs.ubbcluj.ro/>

Responsibilities: Improving students' analytical skills through object-oriented and concurrent programming concepts, but also introducing Web technologies based on design templates. Evaluation of students through seminar materials, laboratory, exams, projects and coordination of Bachelor's and Master's theses.

10.2017 - 12.2017

Postgraduate program in partnership with NTT DATA, Cluj Napoca, Romania

11.2015 - 12.2016

Developer

Company of Applied Informatics, Cluj Napoca, Romania

Employees: 20

Domain: IT Software

Description: Data Center

Responsibilities: Analysis of requirements, objectives, project stage design and implementation of applications for websites, including E-commerce.

07.2015 - 10.2015

Junior Developer

Ruby Tribe Company, Cluj Napoca, Romania

Employees: 50

Domain: IT Software

Description: Frontend internship and responsive web design

Responsibilities: Projects: Dental Campus, Skin Vision, Digital kids

EDUCATION AND TRAINING

10.2023 - ongoing	George Emil Palade University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș, Faculty of Sciences and Letters, Petru Maior, Târgu Mureș, Romania Specialization: Computer Science, Ph.D Student.
10.2016 - 09.2023	Babeș Bolyai University, Faculty of Mathematics and Computer Science, Cluj Napoca, Romania Specialization: Computer Science, Ph.D Student.
10.2011 - 06.2013	Babeș Bolyai University, Faculty of Mathematics and Computer Science, Cluj Napoca, Romania Specialization: Software Engineering, Master's degree.
10.2008 - 07.2011	"1 December 1918" of Alba Iulia University, Faculty of Computer Science and Engineering, Alba Iulia, Romania Specialization: Computer Science, Bachelor's degree.

PERSONAL COMPETENCES

Mother tongue	Romanian				
Foreign languages	UNDERSTANDING		SPEECH		WRITING
	Listening	Reading	Conversation	Oral speech	
English	C1	C2	C1	C1	C2
	IAESTE Austria Certificate				
Digital competences	SELF ASSESSMENT				
	Information processing	Communicate	Content creation	Security	Problem solving
	experienced	experienced	experienced	independent	independent
	Programming skills in: Python, .NET, Java and experience with Latex and Protégé editors. Master's degree Software Engineering, "Babeș Bolyai" University, Faculty of Mathematics and Computer Science, Cluj-Napoca, Romania. Bachelor's degree in Computer Science, Faculty of Computer Science and Engineering, "1 Decembrie 1918" University of Alba Iulia, Romania. High School Diploma Computer Science, Avram Iancu National College, Câmpești, Alba County, RO.				
Communication skills	Strong communication with students and teachers.				
Organizational competencies	Good ability to analyze and work in multidisciplinary teams.				
Skills acquired at work	Skills of persuasion and adaptation to new situations, seriousness, perseverance.				
Driver's license	B Cat.				

INFORMATION

Other courses, trainings
(Courses, Conferences, Seminars,
Affiliations, References)

- [1] **Teaching Mobility International week (2024)**, University of Huelva, Faculty of Engineering, Spain.
- [2] **Workshop** on Emerging Technologies in Health Science (2023), Based on Artificial Intelligence and Related Fields and **International Conference** for PhD Candidates and Young Doctors, UMFST G.E. Palade, Târgu Mureș, Romania.
- [3] **Research Scholarship** (2020), Computer Science Master: Artificial Intelligence, Institute for System Software, Johannes Kepler University (JKU) of Linz, Austria.
- [4] **6th @RoBioinfo Seminar** (2019), Machine Learning for Bioinformatics, Babeș-Bolyai University, Cluj-Napoca, Romania.

Publications

- [1] **Daniela-Maria Cristea**, (2024), Hybrid Combinatorial Problems Used for Multimodal Optimisation, IEEE 24st International Conference on Bioinformatics and Bioengineering (BIBE). Ongoing publication.
- [2] **Daniela-Maria Cristea**, Ioan Sima, László-Barna Iantovics, (2024), How Good Perform Logistic Regression Algorithm for Complex Gastroenterological Image Analysis. Comparative Analysis with Physicians Performance, DOI: 10.20944/preprints202410.0683.v1. Submission received: 2024-10-08.

- [3] Doru-Anastasiu, P., **Daniela-Maria, C.**, Nicolae, B. (2023). A Transfer Learning Approach Interaction in an Academic Consortium. In: Xie, H., Lai, CL., Chen, W., Xu, G., Popescu, E. (eds) *Advances in Web-Based Learning – ICWL 2023*. ICWL 2023. Lecture Notes in Computer Science, vol 14409. Springer, Singapore. https://doi.org/10.1007/978-981-99-8385-8_16
- [4] Doru-Anastasiu, P., **Daniela-Maria, C.**, Nicolae, B. (2023). On an Integrated Assessment for the Students Within an Academic Consortium. In: Frasson, C., Mylonas, P., Troussas, C. (eds) *Augmented Intelligence and Intelligent Tutoring Systems. ITS 2023*. Lecture Notes in Computer Science, vol 13891. Springer, Cham. https://doi.org/10.1007/978-3-031-32883-1_46
- [5] Ioan Sima and **Daniela-Maria Cristea**, (2021), *Parallel Backtracking for the study of the HYDROPHOBIC-POLAR MODEL*, Proceedings of the IADIS International Conference Applied Computing, 978-989-8704-34-4
- [6] Sima I., **Cristea D.M.**, (2021), *Record-to-Record Travel Algorithm for Biomolecules Structure Prediction*, Computational Science and Its Applications – ICCSA 2021. Lecture Notes in Computer Science, vol 12949. Springer, Cham., https://doi.org/10.1007/978-3-030-86653-2_33
- [7] **D.M. Cristea**, V.S. Ionescu, B.G. Trofin, (2020), *Optimization of a Deep-Learning Method for Quantitative Structure-Activity Relationship (QSAR) Analysis*, IEEE Proceeding of the 22nd International Conference on Machine Learning and Applications. Conference (ICMLA), Conference Books: Copenhagen Denmark Jun 11-12, 2020, V, (132–137).
- [8] Telcian A, **Cristea D**, Sima I., (2020), *Formal concept analysis for amino acids classification and visualization*, Acta Universitatis Sapientiae, Informatica, DOI: <https://doi.org/10.2478/ausi-2020-0002>
- [9] **D.M. Cristea**, Imre Zsigmond, I. Sima, B.G. Trofin, R. Kovács, (2019), *Neural Network adaptability from 2D to 3D Chess*, IEEE 13th International Symposium on Applied Computational Intelligence and Informatics (SACI), 10.1109/SACI46893.2019.9111577
- [10] **D.M. Cristea**, B.G. Trofin, (2019), *A Historical Ontology of Semi-automatic Specification Extraction from Romanian Language*, In Proceedings of the 2019 2nd International Conference on Geoinformatics and Data Analysis (ICGDA). Association for Computing Machinery, New York, NY, USA, <https://doi.org/10.1145/3318236.3318246>
- [11] **D.M. Cristea**, D. Lupsa, A. Mihis, B.G. Trofin, (2018), *Applications of ontologies and neural model in processing historical documents*, Symposium, New Trends in Computer Science (ZAC), Cluj-Napoca.

Certifications Informal IT School, .NET Development Certificate, Cluj-Napoca, Romania.
 Link Academy Group Education, Software Development Certificate, Timișoara, Romania.
 Teacher Training Certificate - Module I and Module II.

Projects COST Action Project 02/10/2023-01/10/2027, Thematic: Problem modelling and user experience, Position: Researcher under coordination of Prof. Luca DI GASPERO.

HACKATHON in4it (2023-2024), Thematic: Smart Government, Smart Living, Smart Mobility, Smart People, Smart Economy or Smart Environment, “1 Decembrie 1918” of Alba Iulia, Alba Iulia, Romania, Position: Member.

Project financed from the Institutional Development Fund (2022-2023), Contracts CNFIS-FDI-2023-0268, CNFIS-FDI-2022-0268, Project title: Actions to develop capacity for scientific research in the University “1 Decembrie 1918” of Alba Iulia, project director Cosmin Popa Gorjanu. Position: *Expert research seminars in Computer Science*.

Awards (Distinctions, Citations)

First prize at the 27th Summer School of Image Processing (2019), organized by the West University of Timisoara, Faculty of Mathematics and Computer Science within the team project - *Detection of pneumothorax using data fusion in a convolutional neural network*.

The paper - *A Historical Ontology of Semi-automatic Specification Extraction from Romanian Language, 2021, by the International Journal of Intelligent Systems 36(4), 1686-1720*, in the paper in which it was cited: Knowledge modeling: A survey of processes and techniques, International without ISI rating, but indexed Scopus (indexed BDI).

Paper - *Formal concept analysis for amino acids classification and visualization, 2020*, by (1) ACM Computing Surveys in the paper in which it was cited: *Formal Concept Analysis Applications in Bioinformatics*, indexed by ISI; (2) MDPI in the paper citing *Concept Lattice-Based Classification in NLP*.

Data,
25.10.2024

Signature,