






PERSONAL INFORMATION

Daniela-Maria Cristea

 Alba Iulia
 0744881749
 daniela.cristea@uab.ro
Gender: F
Date of birth: 05-03-1989

IDs in Research Indexing Services

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

Associate Assistant

[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: Front-End internship and responsive web design

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

EDUCATION AND TRAINING

- 10.2023 - 09.2026 George Emil Palade University of Medicine, Pharmacy, Sciences and Technology of Targu Mures, Faculty of Sciences and Letters, Petru Maior, Romania
Specialization: Computer Science
City: Targu Mures
Details: PhD Student
- 10.2016 - 09.2023 Babeş Bolyai, Faculty of Mathematics and Computer Science, Romania
Specialization: Computer Science
City: Cluj Napoca
Details: PhD Student
- 10.2011 - 06.2013 Babeş Bolyai, Faculty of Mathematics and Computer Science, Romania
Specialization: Engineering
City: Cluj Napoca **Diploma:** Master
Details: Software Engineering in English
- 10.2008 - 07.2011 1 December 1918, Faculty of Computer Science and Engineering, Romania
Specialization: Computer Science
City: Alba Iulia
Diploma: 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					

- Communication skills** Good 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

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), "Babeş Bolyai" University, Faculty of Mathematics and Computer Science, Cluj-Napoca; Bachelor's degree (Computer Science), Faculty of Computer Science and Engineering, "1 Decembrie 1918" University of Alba Iulia; High School Diploma (Computer Science-intensive), Avram Iancu Campeni National College, Alba.				

Driver's license B Cat.

INFORMATION

Other courses, trainings

(Courses, Conferences, Seminars,

Affiliations, References)

Workshop on Emerging Technologies in Health Science, Based on Artificial Intelligence and Related Fields and **International Conference** for PhD Candidates and Young Doctors, (2023), UMFST G.E. Palade, Târgu Mureş, Romania.

HACKATHON in4it (Thematic: Smart Government, Smart Living, Smart Mobility, Smart People, Smart Economy or Smart Environment), 1 Decembrie 1918 of Alba Iulia, (2023), Alba Iulia, Romania

Research Scholarship - Computer Science Master: Artificial Intelligence, (2020), Institute for System Software, Johannes Kepler University (JKU) of Linz, Austria.

6th @RoBioinfo Seminar: Machine Learning for Bioinformatics, (2019), Babeş-Bolyai University, Cluj-Napoca, Romania.

Publications

[1] 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*. Lecture Notes in Computer Science, vol 14409. Springer, Singapore. https://doi.org/10.1007/978-981-99-8385-8_16

[2] 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

[3] 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

[4] 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

[5] **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, Part V, (pp. 132–137).

[6] 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>

[7] **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

[8] **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>

[9] **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 module (certificate), Cluj-Napoca, Romania
Link Academy Group Education, modul Software Development (certificate), Timisoara, Romania;
Certificate Module I and II for Teacher Training .

Projects Project financed from the Institutional Development Fund, Contract CNFIS-FDI-2023-0268,
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,
April – May, October – December 2023.

Project financed from the Institutional Development Fund, Contract 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,
April – May, October – December 2022.

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*.

Citations:

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,
11.01.2024

Signature,

