

# Laura Cornei

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## Education

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- Ph.D. - Faculty of Computer Science, "Alexandru Ioan Cuza" University, Iași** 2023-present  
o Thesis: *Hybrid methods based on Evolutionary Algorithms and ML techniques for solving scheduling problems*
- Master of Science - Faculty of Computer Science, "Alexandru Ioan Cuza" University, Iași** 2021-2023  
Advanced Studies in Computer Science Research Master.  
o GPA: 10. Research areas: Machine Learning, Nature Inspired Methods, NLP, Big Data Analytics, Semantic Web  
o Master's Thesis: *Unsupervised text feature selection using NSGA II with Hill Climbing local search*. Grade: 10.
- Bachelor of Science - Faculty of Computer Science, "Alexandru Ioan Cuza" University, Iași** 2018-2021  
o Valedictorian. GPA: 9.98.  
o BSc Thesis: *An ontology and neural networks based platform for improving impact policy assessment*. Grade: 10.
- "Grigore Moisil" Computer Science high school, Iași** 2015-2018  
o Valedictorian

## Experience

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- Teaching Assistant - Faculty of Computer Science, "Alexandru Ioan Cuza" University** 2024-present  
Responsibilities: coordinating class activity, creating lab resources, proposing and evaluating homework and projects  
Subjects: Artificial Intelligence, Data Mining, Databases, DBMS Practice
- Teaching Collaborator - Faculty of Computer Science, "Alexandru Ioan Cuza" University** 2021-2024  
Responsibilities: coordinating class activity, creating lab resources, proposing and evaluating homework and projects  
Subjects: Artificial Intelligence, Databases, Algorithm Design
- Private Sky internship - Faculty of Computer Science, "Alexandru Ioan Cuza" University** summer 2020  
Research internship focused on Semantic Web
- Mentorship program - Amazon, Iași** summer 2018  
Mentorship focused on algorithms and data structures

## Awards

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- International  
ICPC South-East European Regional Contest: 11<sup>th</sup> place (2019-2020), 36<sup>th</sup> place (2018-2019)
- National  
Catalysts Coding Contest: 3<sup>rd</sup> place (2019-2020), 5<sup>th</sup> place (2018-2019)  
RCPC (Romanian Collegiate Programming Contest): 12<sup>th</sup> place (2019-2020), 18<sup>th</sup> place (2018-2019)  
Sapientia ECN Programming and Mathematics Contest: 1<sup>st</sup> place among high school teams (2017-2018)  
InfoCup: 3<sup>rd</sup> place (2017-2018)  
ITMarathon: 1<sup>st</sup> place (2017-2018), 2<sup>nd</sup> place (2016-2017)
- Regional  
Computer Science County Olympiad: 3<sup>rd</sup> place (2016-2017, 2017-2018)  
English County Olympiad: 1<sup>st</sup> place (2015)

## Research interests

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Machine Learning (with focus on Deep Learning), Evolutionary Algorithms, NLP, Semantic Web, Data Mining

## Skills

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- Technologies: ML & NLP (Hugging Face, TensorFlow, Scikit-Learn, Gensim, SpaCy, NLTK), Cloud Computing (Google & Microsoft Azure Cloud), Big Data Analytics (Spark, Hadoop), Semantic Web (Stardog, Protege).
- Programming languages: Python, Java, C/C++, Scala, Prolog, Clips
- Languages: Romanian (native), English (C1-C2), French (B2)
- Psycho-pedagogical modules 1 & 2

## Activities and affiliations

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- Member of **ECODAM** (Evolutionary Computation and Data Mining) research group (2022-present). **ECODAM summer school** (volunteer - 2023, part of organization committee - 2024).
- Member of **Romanian Association of Computational Linguistics** (2023 - present).
- Participant at:
  - ✓ **Winter School "Discovering the unknown: AI in healthcare"** (University of Pavia, Italy - December 2023)
  - ✓ **Cornell, Maryland, Max Planck Pre-doctoral Research School** (Max Planck research institute, Saarbrücken, Germany - August 2023)
- Member of the **Competitive Programming** group UAIC (2017-2020)
- **Problem setter and part of contest committees in several algorithmic contests:** (IIOT) International Informatics Olympiad in Teams, National contest "ProSoft@NT", National contest "Urmaşii lui Moisi", OMI - local phase of Olympiad in Informatics, Infogim. (2019-2020)

## Publications

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- Laura Cornei, Doru Cornei, Cristian Foşalău - **An Ontology-Driven Solution for Capturing Spatial and Temporal Dynamics in Smart Agriculture**, *18th International Conference on Research Challenges in Information Science (RCIS)*, Portugal, Guimarães, 14-17 May, 2024
- Doru Cornei, Cristian Foşalău, Laura Cornei - **A Study Regarding Power Consumption of An IoT Node For Image Retrieval and its Optimization**, *Bulletin of the Polytechnic Institute of Iaşi. Electrical Engineering, Power Engineering, Electronics Section*, 2023-2024.
- Laura Cornei, Eugen Croitoru, Henri Luchian - **Unsupervised text feature selection using NSGA II with Hill Climbing local search**, *27th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems (KES)*, G3 track, Greece, Athens, 6-8 September, 2023
- Sergiu Amihăesei, Laura Cornei, George Stoica - **Appeal for attention at SemEval-2023 Task 3: Data augmentation and extension strategies for detection of online news persuasion techniques**, *Proceedings of the 17th International Workshop on Semantic Evaluation (SemEval)*, Canada, Toronto, 13-14 July, 2023
- Laura Cornei, Diana Trandabăţ - **DBSpark: A system for natural language to SPARQL translation**, *17th International Conference on Research Challenges in Information Science (RCIS)*, Greece, Corfu, 23-26 May 2023
- Laura Cornei, Lenuţa Alboaiie - **An ontology and neural networks based platform for improving impact policy assessment**, *26th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems (KES)*, Italy, Verona, 7-9 September, 2022