Laura Cornei

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📍 Faculty of Computer Science, "A.I. Cuza" University, General Berthelot Str. 16, 700483, Iași, Romania

Education

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

Teaching Collaborator - Faculty of Computer Science, "Alexandru Ioan Cuza" University
Responsibilities: coordinating class activity, creating lab resources, proposing and evaluating homework and projects

DBMS Practice classes (5 groups, 2nd year BSc)	Feb 2024 – June 2024
Artificial Intelligence (5 groups, 3rd year BSc), Databases (3 groups, 2nd year BSc)	Oct 2023 – Feb 2024
Algorithm Design class (1st year BSc) – 3 groups	Feb 2023 – June 2023
Artificial Intelligence class (3rd year BSc) – 2 groups	Oct 2022 - Feb 2023
Artificial Intelligence class (3rd year BSc) – 2 groups	Oct 2021 - Feb 2022

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

International
  ICPC South-East European Regional Contest: 11th place (2019-2020), 36th place (2018-2019)

National
  Catalysts Coding Contest: 3rd place (2019-2020), 5th place (2018-2019)
  RCPC (Romanian Collegiate Programming Contest): 12th place (2019-2020), 18th place (2018-2019)
  Sapientia ECN Programming and Mathematics Contest: 1st place among high school teams (2017-2018)
  InfoCup: 3rd place (2017-2018)
  ITMarathon: 1st place (2017-2018), 2nd place (2016-2017)

Research interests

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

Skills

o 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).

o Programming languages: Python, Java, C/C++, Scala, Prolog, Clips

o Languages: Romanian (native), English (C1-C2), French (B2)

o Psycho-pedagogical module 1

Activities and affiliations

o Member of **ECODAM** (Evolutionary Computation and Data Mining) research group (2022-present).

o Member of **Romanian Association of Computational Linguistics** (2023 - present).

o Participant at **Cornell, Maryland, Max Planck Pre-doctoral Research School** (Max Plank research institute, Saarbrücken, Germany - August 2023)

o Participant at **ECODAM summer school** (UAIC - June 2023)

o **Problem setter and part of contest committees in several algorithmic contests**: (IIOT) International Informatics Olympiad in Teams, National contest "ProSoft@NT", National contest "Urmașii lui Moisil", OMI – local phase of Olympiad in Informatics, Infogim. (2019-2020)

Research projects

o member in: Automated Scheduling of Medical Staff (2023, Innovation Grant Call) | Deep Learning, Nature Inspired methods

o member in: AGROTS (2023, project with IEEIA Faculty, "Gheorghe Asachi" Technical University Iași) | Data Mining, Expert Systems, Semantic Web

Publications

o 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

o 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

o Laura Cornei, Diana Trandabăț - **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

o Laura Cornei, Lenuța Alboaie - **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