



## Diana Cristea

**Nationality:** Romanian **Date of birth:** 03/09/1989 **Email address:** [diana.cristea@ubbcluj.ro](mailto:diana.cristea@ubbcluj.ro)

### WORK EXPERIENCE

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#### Lecturer (Lector Universitar)

**Babeş-Bolyai University** [ 01/07/2017 – Current ]

City: Cluj-Napoca

Country: Romania

#### Scientific Director of the project POC 156284 SENTITEXT

**T2 SRL** [ 01/03/2023 – Current ]

Innovative software product for sentiment analysis in Romanian texts

#### Program Chair and Editor at ICCS 2022

City: Münster

Country: Germany

#### Member in POCU 124662 UBB Entrepreneur! project

**Babeş-Bolyai University** [ 2021 – 2022 ]

City: Cluj-Napoca

Country: Romania

#### Member POCU 123886 Entrepreneurship for innovation through doctoral and postdoctoral research

**Babeş-Bolyai University** [ 01/09/2019 – 30/09/2020 ]

City: Cluj-Napoca

Country: Romania

#### Tutor in ROSE project for prevention of university drop-out

**Babeş-Bolyai University** [ 10/2018 – 05/2022 ]

City: Cluj-Napoca

Country: Romania

#### Evaluator in POCU 109172 project

**Babeş-Bolyai University** [ 02/06/2020 – 30/06/2020 ]

City: Cluj-Napoca

Country: Romania

#### Supervisor in POCU 109172 project

**Babeş-Bolyai University** [ 04/2019 – 09/2019 ]

City: Cluj-Napoca

Country: Romania

#### Program Chair and Editor at ICFCA 2019

City: Frankfurt

Country: Germany

## **Co-organiser Workshop Applications and Tools of Formal Concept Analysis @ ICFCA 2019**

City: Frankfurt

Country: Germany

## **Teaching Assistant (Asistent Universitar)**

*Babeş-Bolyai University* [ 27/02/2017 – 30/06/2017 ]

City: Cluj-Napoca

Country: Romania

## **Associate teacher (Cadru didactic asociat)**

*Babeş-Bolyai University* [ 01/10/2016 – 26/02/2017 ]

City: Cluj-Napoca

Country: Romania

## **Software Engineer**

*Iquest Technologies SRL* [ 01/2015 – 08/2015 ]

City: Cluj-Napoca

Country: Romania

## **Assistant researcher**

*TU Dresden* [ 01/10/2014 – 31/12/2014 ]

City: Dresden

Country: Germany

- research in the topic of Triadic Formal Concept Analysis

## **Co-organiser of ICFCA 2014**

City: Cluj-Napoca

Country: Romania

## **Tutor during PhD studies**

*Babeş-Bolyai University* [ 10/2013 – 06/2015 ]

- laboratories at Computer Systems Architecture, Operating Systems and Distributed Operated Systems

## **Junior software engineer**

*Iquest Technologies SRL* [ 15/10/2012 – 05/09/2014 ]

City: Cluj-Napoca

Country: Romania

## **EDUCATION AND TRAINING**

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### **Project Manager Certification, COR 242101**

[ 03/2023 ]

### **PhD in Computer Science**

*Babeş-Bolyai University, Cluj-Napoca (in collaboration with TU Dresden, Germany)* [ 01/10/2013 – 28/06/2016 ]

Conceptual Visualization and Navigation Methods for Polyadic Formal Concept Analysis

### **One year research grant at TU Dresden, Germany**

*Grant offered by the German Academic Exchange Service DAAD* [ 10/2015 – 07/2016 ]

**Master degree in Computer Science, specialization "Distributive Systems in the Internet"**  
**Babeş-Bolyai University** [ 2011 – 2013 ]

City: Cluj-Napoca  
Country: Romania

**Psycho-pedagogical module, level 2**  
**Babeş-Bolyai University** [ 2011 – 2013 ]

City: Cluj-Napoca  
Country: Romania

**Bachelor Degree in Mathematics, specialization Mathematics and Computer Science**  
**Babeş - Bolyai University** [ 2008 – 2011 ]

City: Cluj Napoca  
Country: Romania

**Erasmus Semester**  
**University of Heidelberg** [ 01/03/2010 – 31/08/2010 ]

City: Heidelberg  
Country: Germany

**Psycho-pedagogical module, level 1**  
**Babeş-Bolyai University** [ 2008 – 2011 ]

City: Cluj-Napoca  
Country: Romania

**High School (Bacalaureat Diploma)**  
**Colegiul National "Gheorghe Lazăr"** [ 2004 – 2008 ]

City: Sibiu  
Country: Romania

**LANGUAGE SKILLS**

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Mother tongue(s): **Romanian**

Other language(s):

**German**

LISTENING C1 READING C1 WRITING C1  
SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

**English**

LISTENING C1 READING C1 WRITING C1  
SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

**French**

LISTENING A2 READING B1 WRITING A2  
SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

**ORGANISATIONAL SKILLS**

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**Organisational skills**

- Teaching and tutoring skills (student tutoring activities as part of the European project ROSE)
- Coordinating student internship activities
- Leadership: as Project Manager, Organizer and Coordinator of different projects

## COMMUNICATION AND INTERPERSONAL SKILLS

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### Communication and interpersonal skills

- Good ability to disseminate scientific information due to the numerous presentations given at conferences
- Good ability to explain complex notions to students due to the teaching experience
- Ability to adjust to a multicultural environment thanks to the work experience at TU Dresden and the Erasmus experience
- Teamwork: I participated in numerous teamprojects during the last years, including projects for NGOs (ex. volunteer at the Red Cross)

## JOB-RELATED SKILLS

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### Job-related skills

- Teaching skills
- Mentoring skills
- Coordinating students
- Teamwork
- Hardworking
- Innovativeness

## SUMMERSCHOOLS AND TUTORIALS

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### Summerschools and Tutorials

- Attended Summerschool Dresden "Methodology of task design – How to construct exercises for learning" and presented poster "Applicability of FCA in choosing optional courses", Dresden (Germany)
- Attended Tutorial on Answer Set Solving in Practice: Advanced techniques co-located with the International Joint Conference on Artificial Intelligence (IJCAI 2015), Buenos Aires, Argentina
- Attended Tutorial on Implementing KR Approaches with Tweety co-located with the International Joint Conference on Artificial Intelligence (IJCAI 2015), Buenos Aires, Argentina
- Attended Tutorial on Probabilistic Programming co-located with the International Joint Conference on Artificial Intelligence (IJCAI 2015), Buenos Aires, Argentina

## MEMBER IN PROGRAM COMMITTEES

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### Member in Program Committees

- Workshop "What can FCA do for Artificial Intelligence?" (FCA4AI) co-located with ECAI 2016
- Foundations of Intelligent Systems, ISMIS 2017
- Analysis of Images, Social Networks and Texts, AIST 2017
- Workshop "What can FCA do for Artificial Intelligence?" (FCA4AI) co-located with IJCAI 2018
- Analysis of Images, Social Networks and Texts, AIST 2018
- International Conference on Conceptual Structures, ICCS 2019
- Workshop "What can FCA do for Artificial Intelligence?" (FCA4AI) co-located with IJCAI 2019
- International Joint Conference on Artificial Intelligence, IJCAI 2019
- International Joint Conference on Artificial Intelligence, IJCAI 2020
- Workshop "What can FCA do for Artificial Intelligence?" (FCA4AI) co-located with ECAI 2020
- International Conference on Conceptual Structures, ICCS 2020
- International Conference on Formal Concept Analysis, ICFA 2021
- International Conference on Conceptual Structures, ICCS 2021
- Workshop RealDataFCA, co-located with ICFA 2021
- Workshop "What can FCA do for Artificial Intelligence?" (FCA4AI) co-located with IJCAI 2021
- Workshop "What can FCA do for Artificial Intelligence?" (FCA4AI) co-located with IJCAI-ECAI 2022

### Recent Publications

- Conceptual Visualization and Navigation Methods for Polyadic Formal Concept Analysis, Diana Troancă, Editura Napoca Star, ISBN: 978-606-690-659-3, 2017
  - Formal Concept Analysis Model for Static Code Analysis, Simona Motogna, Diana Cristea, Diana Sotropa, Arthur-Jozsef Molnar, Carpathian Journal of Mathematics, 38/2022 no. 1, pp. 159-168
  - On the Use of FCA Models in Static Analysis Tools to Detect Common Errors in Programming, Diana Cristea, Diana Şotropa, Arthur-Jozsef Molnar, Simona Motogna, Proc. Of the 26th International Conference on Conceptual Structures, LNCS, volume 12879, pp. 3-18, Springer, 2021
  - Knowledge Discovery and Visualization in Healthcare Datasets using Formal Concept Analysis and Graph Databases, Diana Cristea, Christian Săcărea, Diana Şotropa, Proc. Of the 5th International Workshop on Knowledge Discovery in Healthcare Data 2020, co-located with ECAI 2020, CEUR Workshop Proceedings 2675, pp. 35-42, 2020
  - Formal Concept Analysis Grounded Knowledge Discovery in Electronic Health Record Systems, Christian Săcărea, Diana Şotropa, Diana Troancă, Proc. of the 20th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, IEEE 2018, ISBN 978-1-7281-0625-0, pp. 266-271, 2018
  - Using analogical complexes to improve human reasoning and decision making in Electronic Health Record Systems, Christian Săcărea, Diana Şotropa, Diana Troancă, Proc. of the 23rd International Conference on Conceptual Structures, LNCS, vol 10872, pp. 9-23, Springer, 2018
  - Symptoms investigation by means of Formal Concept Analysis for enhancing medical diagnoses, Christian Săcărea, Diana Şotropa, Diana Troancă, Proc. of the The 25th International Conference on Software, Telecommunications and Computer Networks, IEEE, pp. 1-5, 2017
  - Navigation and Exploration Tool for Polyadic FCA, L. L. Kis, C. Săcărea, D. Troancă Supplementary Proc. of the 14th International Conference on Formal Concept Analysis, ICFCA 2017, Rennes, France, pp. 83-86, 2017
  - FCA Tools Bundle - a Tool that Enables Dyadic and Triadic Conceptual Navigation, Lorand Levente Kis, Christian Săcărea, Diana Troancă, Proc. of the 4th International Workshop FCA4AI "What can FCA do for Artificial Intelligence", FCA4AI 2016, co-located with ECAI 2016, pp. 35-42. CEUR-WS.org, 2016
  - A Reachability-based Navigation Paradigm for Triadic Concepts, Diana Troanca, Proc. of the 4th International Workshop FCA4AI "What can FCA do for Artificial Intelligence", FCA4AI 2016, co-located with ECAI 2016, pp. 35-42. CEUR-WS.org, 2016
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