



# Mihai Dogariu

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<https://mdogariu.aimultimedialab.ro/>

## ● WORK EXPERIENCE

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02/2014 – CURRENT  
**LABORATORY ASSISTANT** – UNIVERSITY 'POLITEHNICA' OF BUCHAREST

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Taught laboratories for several subjects in the Electronics, Telecommunications and Information Technology Faculty (if not specified otherwise):

- Computer Programming - 1st year Bachelor
- Object Oriented Programming - 2nd year Bachelor
- Data Structures and Algorithms - 2nd year Bachelor
- Microprocessors' Architecture - 2nd year Bachelor
- Image Analysis and Processing - 2nd year Bachelor (Industrial Engineering and Robotics Faculty)
- Medical Image Processing - 3rd year Bachelor (Medical Engineering Faculty)
- Microcontrollers - 3rd year Bachelor
- Computer Vision Fundamentals - 1st year Masters

Bucharest, Romania

04/2016 – 08/2016  
**RESEARCH INTERN** – ORANGE LABS NETWORKS

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Performed a research study on lowering electromagnetic radiation from telecommunication devices.

Châtillon, France

04/2015 – 08/2015  
**JUNIOR INTEGRATION ENGINEER** – ORANGE LABS, PRODUCTS AND SERVICES

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Worked on launching the integration platform for TV apps on different servers.

Bucharest, Romania

02/2015 – 03/2015  
**INVITED RESEARCHER (CHERCHEUR INVITÉ)** – LABORATOIRE D'INFORMATIQUE DE GRENOBLE

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I participated in a research internship for 6 weeks in collaboration with the GETALP (Groupe d'Étude en Traduction Automatique/Traitement Automatisé des Langues et de la Parole) team, where I conducted a research project in the field of distance automatic speech recognition.

Grenoble, France

12/2013 – 02/2014  
**INTERN** – VIRTUAL METRIX

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I was part of the QA team, where I performed testing and mobile applications configuration, with the purpose of reducing the average power consumption.

Bucharest, Romania

06/2013 – 09/2013  
**INTERN** – ORANGE

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I was an intern in the "Orange First Step" program, in the IT department.

Bucharest, Romania

## ● EDUCATION AND TRAINING

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01/10/2016 – CURRENT

**PHD - UNSUPERVISED DEEP LEARNING** – University 'Politehnica' of Bucharest

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Working on my PhD thesis, entitled "Unsupervised Deep Learning" under the coordination of prof. Bogdan IONESCU.

2015 – 2016 – Paris, France

**MASTER 2 RECHERCHE** – CentraleSupélec, Université Paris Saclay

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I followed the "Advanced Wireless Communications Systems" Master's programme and graduated 3<sup>rd</sup> in class.

2014 – 2016

**MASTER'S DEGREE** – University 'Politehnica' of Bucharest

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Graduated the "Multimedia Communications" Master's programme at Faculty of Electronics, Telecommunications and Information Technology.

2010 – 2014

**BACHELOR DEGREE** – University 'Politehnica' of Bucharest

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Graduated the "Telecommunications Technologies and Systems" branch of Faculty of Electronics, Telecommunications and Information Technology, taught in English.

## ● HONOURS AND AWARDS

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### Honours and awards

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- graduated 3<sup>rd</sup> out of 23 in Master 2 Recherche with "High honors";
- winner of the competition of the practice internship organized by the "*Mihai Draganescu*" Artificial Intelligence Research Institute in June – August 2013;

## ● PUBLICATIONS

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### Publications

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#### Book Chapters

1. B. Ionescu, H. Müller, R. Péteri, D.-T. Dang-Nguyen, L. Zhou, L. Piras, M. Riegler, P. Halvorsen, M.-T. Tran, M. Lux, C. Gurrin, J. Chamberlain, A. Clark, A. Campello, A.G.S. de Herrera, A.B. Abacha, V. Datla, S.A. Hasan, J. Liu, D. Demner-Fushman, O. Pelka, C.M. Friedrich, Y.D. Cid, S. Kozlovski, V. Liauchuk, V. Kovalev, R. Berari, P. Brie, D. Fichou, **M. Dogariu**, L.-D. Ştefan, M.G. Constantin. "Overview of the ImageCLEF 2020: Multimedia Retrieval in Medical, Lifelogging, Nature, and Internet Applications.", in Experimental IR Meets Multilinguality, Multimodality, and Interaction. CLEF 2020. Lecture Notes in Computer Science, vol 12260. Springer, Cham
2. B. Ionescu, H. Müller, R. Péteri, D.-T. Dang-Nguyen, L. Zhou, L. Piras, M. Riegler, P. Halvorsen, M.-T. Tran, M. Lux, C. Gurrin, J. Chamberlain, A. Clark, A. Campello, A.G.S. de Herrera, A.B. Abacha, V. Datla, S.A. Hasan, J. Liu, D. Demner-Fushman, O. Pelka, C.M. Friedrich, Y.D. Cid, S. Kozlovski, V. Liauchuk, V. Kovalev, R. Berari, P. Brie, D. Fichou, **M. Dogariu**, L.-D. Ştefan, M.G. Constantin, "ImageCLEF 2020: Multimedia Retrieval in Lifelogging, Medical, Nature, and Internet Applications", in Springer Lecture Notes in Computer Science, 12036, pp. 533-541, ECIR 2020 Proceedings, 2020.

#### Conferences

1. **M. Dogariu**, L. Stefan, M. G. Constantin and B. Ionescu, "Human-Object Interaction: Application to Abandoned Luggage Detection in Video Surveillance Scenarios", in 13th International Conference on Communications (COMM), Bucharest, Romania, 2020.
2. L. Ştefan, Ş. Abdulamit, **M. Dogariu**, M. G. Constantin and B. Ionescu, "Deep Learning-based Person Search with Visual Attention Embedding", in 13th International Conference on Communications (COMM), Bucharest, Romania, 2020.
3. A.-M. Tăuţan, **M. Dogariu**, B. Ionescu, "Detection of Epileptic Seizures using Unsupervised Learning Techniques for Feature Extraction", in the 41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Berlin, 2019.
4. **M. Dogariu**, H. Cucu, A. Buzo, D. Burileanu, O. Fratu, "Speech Database Acquisition for Assisted Living Environment Applications", in the Proceedings of the 8th Conference on Speech Technology and Human-Computer Dialogue (SpeD), Bucharest, 2015.
5. **M. Dogariu**, H. Cucu, A. Buzo, D. Burileanu, O. Fratu, "Speech Applications in the eWALL Project", in the Proceedings of the 8th Conference on Speech Technology and Human-Computer Dialogue (SpeD), Bucharest, 2015

#### Working Notes

1. **M. Dogariu**, B. Ionescu, "Multimedia Lab @ ImageCLEF 2019 Lifelog Moment Retrieval Task", in CLEF working notes, CEUR, September 9-12, Lugano, Switzerland, 2019.
2. **M. Dogariu**, B. Ionescu, "Multimedia Lab @ ImageCLEF 2018 Lifelog Moment Retrieval Task", in CLEF working notes, CEUR, September 10-14, Avignon, France, 2018.
3. **M. Dogariu**, B. Ionescu, "A Textual Filtering of HOG-Based Hierarchical Clustering of Lifelog Data", in CLEF working notes, CEUR, September 11-14, Dublin, Ireland, 2017.

## ● RESEARCH PROJECTS

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### Research Projects

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#### Research Projects

1. 2020 - present: *PhD Student* at University Politehnica of Bucharest, in H2020 AI4Media "A European Excellence Centre for Media, Society and Democracy", owner CERTH, Greece, partner University "Politehnica" of Bucharest, axis H2020 ICT-48-2020 / Towards a vibrant European network of AI excellence centres.
2. June 2020 - present: *PhD Student* at University Politehnica of Bucharest, in the SMARTRetail "Enhancing and Improving Customer Experience and Services in Supermarkets via SMART Artificial Intelligence Powered Systems".
3. June 2020 - present: *PhD Student* at University Politehnica of Bucharest, in the GRAVI "Virtual Guardian: Artificial Intelligence Powered Multi-Sensor System for Automatic Securing of Areas of Interest".
4. April 2020 - present: *PhD Student* at University Politehnica of Bucharest, in the Keysight 1 "Machine Learning Techniques for Generating Network Traffic Data" project, owner University "Politehnica" of Bucharest, Research Center CAMPUS, beneficiary Keysight Technologies Romania, ID Keysight 1/23-03-2020.
5. April 2020 - July 2020: *PhD Student* at University Politehnica of Bucharest, in the Hana 2 "Financial Data Augmentation and Forecasting Using Advanced AI Techniques" project, owner "Politehnica" Research, Development and Innovation Institute, beneficiary Hana Institute of Technology, Republic of Korea, ID Hana 2/01-04-2020.
6. May 2017 - April 2020: *PhD Student* at University Politehnica of Bucharest, in the SPIA-VA project ("Intelligent Systems for Video and Audio Analysis - Technologies and Innovative Video Systems for Person Re-identification and Analysis of Dissimulated Behavior", project coordinator University Politehnica of Bucharest, ID PN-III-P2-2.1-SOL-2016-02-000.
7. July 2019 - December 2019: *Research Assistant* at University Politehnica of Bucharest, in the Hana 1 "Machine Learning Techniques for the Processing and Analysis of Financial Data" project, owner "Politehnica" Research, Development and Innovation Institute, beneficiary Hana Institute of Technology, Republic of Korea, ID Hana 1/22-07-2019.
8. February 2017 - April 2019: *Researcher - Trainer* at University Politehnica of Bucharest, in the UMETECH project ("University and Media Technology for Cultural Heritage"), funded by the European Commission.
9. January 2017 - June 2018: *PhD Student* at University Politehnica of Bucharest, in the SPOTTER project ("Intelligent Real-time Surveillance System with Specific Regions Detection Integrated on IP Cameras"), funded by the Romanian Government through UEFISCDI, project coordinator University Politehnica of Bucharest, ID PN-III-P2-P2.1-PED-2016-1065.
10. July 2014 - May 2015: *Engineer* at University Politehnica of Bucharest, in the eWALL project("eWALL for Active Long Living"), funded by the European Commission through the 7th Framework Programme, ID FP7-ICT-2013-10, no. 610658.

## ● CONFERENCE ORGANIZING COMMITTEES

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### Conference Organizing Committees

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1. 2020: *Technical Support* in the organizing committee and *Task Organizer* of the ImageCLEF 2020 international evaluation campaign.
2. 2019: *Technical Support* in the organizing committee of the ImageCLEF 2019 international evaluation campaign.
3. 2018: *Technical Support* in the organizing committee of the ImageCLEF 2018 international evaluation campaign.
4. 2017: *Member* in the local organizing committee of the ACM ICMR 2017 ("International Conference on Multimedia Retrieval") international conference.
5. 2017: *Technical Support* in the organizing committee of the ImageCLEF 2017 international evaluation campaign.
6. 2013: *Volunteering Student* in the organizing committee of the ESSCIRC/ESSDERC 2013 ("European Solid-State Circuits Conference/European Solid-State Device Research Conference") international conference.
7. 2012: *Volunteering Student* in the organizing committee of the EUSIPCO 2012 ("European Signal Processing Conference") international conference.

## ● TECHNICAL PROGRAM COMMITTEE

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### Reviewer for several publications:

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1. [ACM Multimedia 2020](#)
2. [RISS workshop, SpeD 2019](#)
3. [ACM Multimedia 2019](#)
4. [MMSP 2019](#)
5. [INDEED / ICPRAM 2018](#)
6. [FABULOUS 2017](#)
7. [UPB Scientific Bulletin](#)

## ● LANGUAGE SKILLS

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**Mother tongue(s):** ROMANIAN

**Other language(s):**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	C1	C1	C1
<b>GERMAN</b>	A1	A2	A2	A1	A1
<b>FRENCH</b>	A2	A2	A2	A2	A1

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

## ● ORGANISATIONAL SKILLS

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### Organisational skills

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- very efficient in time management and personal activities organization;
- ability of finding answers for numerous problems in a short time;
- ability to lead through personal example.

## ● COMMUNICATION AND INTERPERSONAL SKILLS

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### Communication and interpersonal skills

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- good capacity of communication;
- open to innovative ideas and opinions;
- team spirit;
- spontaneous thinking.