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Andra-Elena Baltoiu

Date of birth: 19/11/1985 | **Nationality:** Romanian | **Phone number:** (+40) 740956710 (Mobile) | **Email address:** andra.baltoiu@gmail.com | **Address:** Strada Pietei Nr 37-39, 012798, Bucharest, Romania (Home)

WORK EXPERIENCE

ASSOCIATE PROFESSOR – FACULTY OF AUTOMATIC CONTROL AND COMPUTERS, POLITEHNICA UNIVERSITY OF BUCHAREST – 30/09/2022 – Current

Data Structures and Algorithms
Object Oriented Programming
Numerical Methods
Introduction to Exploratory Data Analysis

UNIVERSITY RESEARCH ASSISTANT – THE RESEARCH INSTITUTE OF THE UNIVERSITY OF BUCHAREST | CENTRE FOR LOGIC, OPTIMISATION AND SECURITY – 2017 – 2022 – ROMANIA

TEACHING ASSISTANT (PART-TIME) – FACULTY OF MATHEMATICS AND COMPUTER SCIENCE, UNIVERSITY OF BUCHAREST – 28/02/2018 – 30/06/2022

Operating Systems Use
Signal Processing
Scientific Computing

RESEARCH SCIENTIST – INSTITUTE OF SPACE SCIENCE – 30/09/2014 – 30/12/2017 – MAGURELE, ROMANIA

RESEARCH ASSISTANT – NATIONAL INSTITUTE FOR SPORT RESEARCH – 09/06/2013 – 28/02/2017 – BUCUREȘTI, ROMANIA

STRATEGIC PLANNER – LEO BURNETT | STARCOM | RUSU+BORȚUN – 2005 – 2010

EDUCATION AND TRAINING

30/09/2016 – 11/11/2021
PHD Faculty of Automatic Control and Computers, University Politehnica of Bucharest

Thesis Adaptive Strategies for Separable Dictionary Learning and Applications to Anomaly Detection, Adviser Prof. Bogdan Dumitrescu

2012 – 2015
MASTER'S DEGREE IN INTELLIGENT CONTROL SYSTEMS Faculty of Automatic Control and Computers, University Politehnica of Bucharest

BACHELOR'S DEGREE IN SYSTEMS ENGINEERING Faculty of Automatic Control and Computers, University Politehnica of Bucharest

Thesis 2004-2006, 2010-2013

1999 – 2004 Tulcea, Romania
BACALAUREATE Colegiul Dobrogean "Spiru Haret"

LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
ITALIAN	B2	B2	B2	B2	A2
FRENCH	B2	B1	B1	B1	A2

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

PROJECTS

09/2025 – 09/2026
TwinSight AI – Sistem de Management Agnostic pentru Flote de Roboți Autonomi

Identifier: SMIS 336732
Role: Member

09/10/2023 – 31/12/2024
DmDA - Fault detection in small UAVs using dictionary learning

Research Grant
Identifier: 207 GNAC ARUT 2023
Title: DmDA - Fault detection in small UAVs using dictionary learning
Role: Director
Funding: GANC ARUT
Budget: 49 752 RON

06/2022 – 12/2024
Asymmetric Dictionary Leaning

Identifier: PN-III-P4-PCE-2021- 0154
Role: Member

08/2020 – 04/2022
Graphomaly software library for anomaly detection in graphs mo- deling financial transactions

Identifier: PN-III-P2-2.1-PED-2019-3248
Role: Member

03/2018 – 09/2021
Innovation hub for advanced cyberInnovation hub for advanced cyber-security technologies security technologies – (ATLAS)

Identifier: PN-III-P1-1.2-PCCDI-2017-0272
Role: Member

03/2018 – 12/2020
Valorificarea Extensivă a experienței în activități de Spațiu și Securitate (VESS)

Identifier: PN-III-P1-1.2-PCCDI- 2017-0371
Role: Member

11/2013 – 10/2016
Computer assisted and information feedback training for human spaceflight Computer assisted and information feedback training for human spaceflight support support (STARWALKER)

Identifier: 56-2013 ROSA “Proiecte de Cercetare, Dezvoltare şi Inovare STAR”
Role: Member

09/2020 – 05/2022

Advanced security mechanisms for autonomous systems (MASSA)

Identifier: PN-III-P2-2.1-PTE-2019-0817
Role: Member

HONOURS AND AWARDS

2019

Data Science Research Fellowships – BRD