

PERSONAL INFORMATION

Alina Delia Călin

📍 Cluj-Napoca (Romania)

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WORK EXPERIENCE

11/10/2012–Present

Co-founder and Chief Research Officer

MIRA REHAB Ltd., London (United Kingdom)

Managing Research and Clinical Studies of MIRA REHAB product and developing software games (.Net C#). Main clinical collaborations with The University of Manchester (**Falls prevention SBRI Phase I and II: 2014-2016**), with Brunel University and Malaysian partners (**IntelliRehab Neuro-rehabilitation project funded by Innovate UK - Newton fund: 2016-2019**) and NHS Trusts from Birmingham and Sussex (Rehabilitation for children with long term conditions, funded by **NIHR i4i Connect: 2018**). Expertise in writing applications for research funding and project management.

05/2019-08/2022

Project Manager

01/2015–09/2017

MIRA Rehab SRL, Cluj-Napoca (Romania)

2019-2022 Partner project manager for a European funded (**AAL**) research project in collaboration with 6 **European** partners for project **SALSA** – supporting active living style of ageing people.

2015-2017 Partner project manager for a government funded (UEFISCDI) research project in collaboration with **The Faculty of Psychology, UBB - Active CORE** - developing cognitive training games for active ageing, project reporting, software design and research.

01/10/2020–Present

Teaching assistant in Computer science

Babes-Bolyai University, Cluj-Napoca (Romania)

Teaching activities; subjects include Operating Systems (Linux, Shell, C, POSIX Threads and Processes), Functional and Logic Programming (LISP, Prolog), Computer Systems Architecture (x32). Teaching experience since October 2014. Research activities (including SBRI grant project FREIDA).

09/08/2010–27/08/2010

Software developer internship

iQuest Technologies, Cluj-Napoca (Romania)

Java, Android phone app.

EDUCATION AND TRAINING

10/2014–12/2018

PhD – Thesis titled “Intelligent Rehabilitation Systems Using Motion Camera Interaction”

EQF level 8

Babes-Bolyai University, Cluj-Napoca (Romania)

Artificial intelligence, gesture recognition, motion sensors.

01/10/2012–31/09/2014

Master's Degree in Distributed Systems over Internet

EQF level 7

Babes-Bolyai University, Cluj-Napoca (Romania)

Distributed computer systems.

09/2011–07/2012

Volunteer

Jesuit Volunteer Community Britain, Manchester (United Kingdom)

Involved with **The Big Issue in the North**: interpreting and translating in English and Romanian, outreach and support for vendors; and **Cheetham & Crumpsall Welcome Centre** (a drop-in centre for individuals and families in neighbourhood, including asylum seekers, refugees and homeless people): support with serving food, arts course, activities with children, socializing, computer tasks.

01/10/2008–31/07/2011

Bachelor's Degree in Computer Science

EQF level 6

Babes-Bolyai University, Cluj-Napoca (Romania)

3 year programme, Computer science in English.

PERSONAL SKILLS

Mother tongue(s) Romanian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	A1	A2	A2	A1	A2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills - international and multicultural collaboration skills (Romania, UK, Malaysia, Austria, Switzerland);

Organisational / managerial skills - PM experience in over 5 research and collaborative international projects

Job-related skills - research activities, including writing research grant applications, project implementation
 - business development activities (engaging KOLs, strategic collaborations and sales, securing non-dilutive funding for R&D activities, business plan development, pitch deck creation and presentation)

ADDITIONAL INFORMATION**Publications**

- Marinescu A. I., Muresan H. B., Calin A. D., Coroiu A. M., FREIDA - Fracture Risk Evaluation using Highly Efficient Information Retrieval and Analysis of Large Healthcare Datasets, BIG DATA, 2021.
- Muresan H. B., Coroiu A. M., Calin A. D., Detecting Leaf Plant Disease Using Deep Learning : A Review, SOFTCOM, 2020.
- A. D. Călin and A. Coroiu, Interchangeability of Kinect and Orbbec Sensors for Gesture Recognition, ICCP 2018.
- I.M. Moldovan, L. Tric, R. Ursu, A. Podar, A.D. Călin, et al. Virtual Rehabilitation Programme Using the MIRA Platform, Kinect and Leap Motion in an 81 Years Old Patient with Stroke. EHB, 2017.
- A. D. Călin, H. F. Pop and R. F. Boian, Improving Movement Analysis in Physical Therapy Systems Based on Kinect Interaction, BHCI, 2017.
- A. D. Călin, A Comparative Study of Artificial Intelligence Methods for Kinect Gesture Recognition, Studia Informatica, 2016.
- A. D. Călin, Variation of Pose and Gesture Recognition Accuracy Using Two Kinect Versions, INISTA, 2016, Sinaia, Romania.
- A. D. Călin, Gesture Recognition on Kinect Time Series Data Using Dynamic TimeWarping and Hidden Markov Models, SYNASC, 2016, Timisoara, Romania.
- A. D. Călin, Dynamic Game Difficulty Balancing in Active Ageing Systems, MaCS, Proceedings of CEUR-WS, Eger, Hungary, 2016.
- Moldovan I. M., Călin A. D., et al., Development of a new scoring system for bilateral upper limb function and performance in children with cerebral palsy using the MIRA interactive video games and the Kinect sensor, ICDVRAT, 2014, Gothenburg, Sweden.

Total citations (Google Scholar): 120. [Scopus Profile](#) . [ORCID](#) .**Honours and awards**

First 6 projects worldwide at the **Imagine Cup** competition in **2011**, **NewYork** software design category with project **MIRA**. International competitor at ImaginCup 2010 in Poland. Participant at the competition UBBOTS in **2011** with the robot **iMark**.