

## PERSONAL INFORMATION

## Alina Delia Călin

📍 Donath St., 400293 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.

05/2019-08/2020

## Project Manager

01/2015–09/2017

MIRA Rehab SRL, Cluj-Napoca (Romania)

2019-2020 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.

01/10/2017–Present

## Teaching assistant in Computer science

Babes-Bolyai University, Cluj-Napoca (Romania)

Teaching activities; subjects include Operating Systems, Functional and Logic Programming, Computer Systems Architecture. Teaching experience since October 2014.

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	C1
French	A2	A2	A1	A1	A1

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);

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

**ADDITIONAL INFORMATION****Publications**

- 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.
- 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 Sensors in an 81 Years Old Patient with Ischemic 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. Cantea, C. Mihaiu, A. Dascălu, A. D. Călin, MIRA, BHCI, 2017.
- A. D. Călin and A. Coroiu, Interchangeability of Kinect and Orbbec Sensors for Gesture Recognition, ICCP 2018.
- 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.
- Călin A., Cantea A., Dascălu A., Mihaiu C., Suci, D., MIRA – Upper Limb Rehabilitation System Using Microsoft Kinect, STUDIA INFORMATICA, 2011.
- Coroiu A.M., Călin A.D., Nuțu M. (2018) Communication Style - An Analysis from the Perspective of Automated Learning. ICANN 2018.
- Coroiu A. M., Călin A. D., Feedback seminar analysis - An introductory approach from an intelligent perspective, SOFA 2018.

Total citations (Google Scholar): 25.

**Honours and awards**Participant at the competition UBBOTS in 2011 with the robot iMark. **First 6 projects worldwide at the Imagine Cup competition in 2011, NewYork** software design category with project MIRA.