







PERSONAL INFORMATION

Luiza Buimaga-Iarinca

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POSITION

Computational Physicist

WORK EXPERIENCE

- 2021 - **Senior Researcher II**
INCDTIM, Cluj-Napoca (Romania)
- 2011–2021 **Researcher III**
INCDTIM, Cluj-Napoca (Romania)
- 2008–2011 **Researcher**
INCDTIM, Cluj-Napoca (Romania)
- 2006–2008 **Researcher Assistant**
INCDTIM, Cluj-Napoca (Romania)

EDUCATION AND TRAINING

- 2008–2011 **PhD in Physics**
Babes Bolyai University, Cluj-Napoca (Romania)
- 2004–2005 **Master in Science (Biophysics and Medical Physics)**
Babes Bolyai University, Cluj-Napoca (Romania)
- 2000–2004 **Bachelor in Science (Physics)**
Babes Bolyai University, Cluj-Napoca (Romania)

PERSONAL SKILLS

Mother tongue(s) Romanian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C1

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

Organisational / managerial skills

- 3 research projects as coordinator / responsible
- 4 research projects as responsible for the computational activities

Job-related skills

Computational Chemistry: molecular docking calculations and energy assessment in host-guest systems.
Computational Biology: Numerical and statistical modeling of biological phenomena: cellular flickering, genomics.
Computational Physics: The use of ab-initio methods in the study of the electronic structure of (bio) molecules in interaction with metallic surfaces (SIESTA code); Molecular electronics.
Computational Nanotechnology: numerical simulations of molecular self-assembly on metallic surfaces; computational analysis of organic molecule interaction - metallic substrate; the computational characterization of the molecule-metal interaction mechanism
Experimental: training course in Dip Pen Nanolithography (Nanoink); training in electrochemical measurements (BioLogic)
Data analysis and coding: C, C ++, Python, Matlab, on both Linux and Windows platform
Data editing: Microsoft Office, Latex, Gimp, Mercury, etc

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital skills - Self-assessment grid

Professional awards

Diploma of Excellence for Physics at the national contest "Young Researchers in Science and Engineering", 2nd edition (2016), offered by Municipality of Cluj-Napoca together with prof. Rada Mihalcea to recognize young researchers in science and engineering who, through their work, have demonstrated excellence and have made extraordinary contributions in their field of specialty.

ICPAM-9 Sponsor's Prize for the most original contribution presented by a young scientist - "Electronic structure of cysteine dimers adsorbed on gold: a DFT study". Received at the 9th International Conference on Physics of Advanced Materials, 2012, Iasi, Romania

Best poster Award - DFT study of cysteine adsorption on gold defect surfaces –Received at the International Conference on Processes in Isotopes and Molecules, 2011 Cluj-Napoca, Romania

Professional Association Affiliation

Member of European Biophysics Society
Member of Romanian Society of Pure and Applied Biophysics
Member of Romanian Society of Physics

Journal Referee for

J. Chem. Phys, J. Mol. Struct., J Mol. Mod; Sci. Rep.