

PERSONAL INFORMATION

Roman Atanasov



Sex

WORK EXPERIENCE

October 2018-Present

PhD Student

Faculty of Physics, Babes-Bolyai University, Cluj-Napoca 400084, Romania

December 2013-May 2016

Store department manager

Home Depot, Detroit, Michigan, USA

- Management of store's needs and equipment
- Team leadership and organization
- Heavy machinery acquisition and distribution

Business or sector Business management

December 2010-December 2012

Physics counsellor and tutor

Astrocamp, idyllwild, California, USA

- Teaching students physics
- Managing organization of the schedule and camp
- Leadership of multiple teams of teachers

Business or sector Education

September 2006-July 2009

Research assistant

Faculty of Physics, University of Windsor, Windsor, Canada

- Developing characterization methods for automotive industry
- Morphological and structural examination of welding joints
- Managing, supervision and training of students
- Managing laboratory equipment acquisition, stock, inventory of necessary substances

Business or sector Research and development

EDUCATION AND TRAINING

October 2016-July 2018 **Solid State Physics, Master's degree**

Faculty of Physics, Babes-Bolyai University, Cluj-Napoca 400084, Romania

- Characterization and study of solid state matter
- Advanced study of transport and transfer phenomena
- Practical and theoretical knowledge about characterization techniques like: TEM, SEM, XPS, VSM, TG, DSC etc.
- Manganese oxides study
- Magnetic materials behaviour study.
- Magnetocaloric effect
- Colossal magnetoresistance

October 2003-July 2007 **Physics and high technology, Bachelor's degree.**

University of Windsor, Faculty of Physics, Windsor, Canada

- Physics and high technology study
- Study with focus on theoretical physics
- Study of lab equipment and processes
- Characterization techniques
- Study of MatLab, C++ language, Fortran language, MsOffice software
- Basic study of chemistry

PERSONAL SKILLS

Mother tongue(s) Bulgarian

| Other language(s) | UNDERSTANDING | | SPEAKING | | WRITING |
|-------------------|---------------|--------------|--------------------|-------------------|--------------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | Fluent | Fluent | Fluent | Fluent | Fluent |
| Russian | Fluent | Fluent | Fluent | Fluent | Fluent |
| French | Intermediate | Intermediate | Intermediate | Intermediate | Intermediate |
| Romanian | Intermediate | Intermediate | Intermediate | Intermediate | Intermediate |

Communication skills

- Developed an astute communication style, based on years of experience in problem solving in teams as well as individual work. Great understanding of the process and finding common "language" with team members in order to find a solution.
- Great presentation skills developed during the various conferences attended
- Good management and explanatory skills gained during student mentorships as well as in the work environment
- Analytical way of thinking and communication based on in depth understanding of the physical cause-effect phenomena

Organisational / managerial skills

- Good time management capabilities acquired through experience
- Leadership skills that allow members to express themselves to their abilities

Digital competence

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

Levels: Basic user - Independent user - Proficient user

[Digital competences - Self-assessment grid](#)

- good command of Microsoft Office suite (Excel, PowerPoint, Word)
- good command of MatLab, OriginPro, CAD software
- excellent use of search engines for efficient research and problem solving

Driving licence B

ADDITIONAL INFORMATION

Conferences

Poster presentation - 13th International Conference on Physics of Advanced Materials (ICPAM-13), 22nd -28th of September 2021, sant Feliu de Guixols, Spain.

R. Atanasov, R. Bortnic, R. Hirian, G. Souca, I. Deac. *Magnetic properties and magnetocaloric effect in $La_{0.7-x}Eu_xBa_{0.3}MnO_3$ and $La_{0.7-x}Ho_xBa_{0.3}MnO_3$ nanoparticles.*

Poster presentation - 14th International Conference on Physics of Advanced Materials (ICPAM-14), 8th - 15th of September 2022, Dubrovnik, Croatia.

R. Atanasov, Ecaterina Brinza, R. Bortnic, R. Hirian, G. Souca, L. Barbu, I. Deac. *Comparison of magnetic properties and magnetocaloric effect in $La_{0.7}Ba_{0.3-x}Ca_xMnO_3$ polycrystalline and nano-particle manganites* **5th Autumn School on Physics of Advanced Materials (PAMS-5)**, 22nd -28th of September 2021, sant Feliu de Guixols, Spain.

Published papers

Magnetic and Magnetocaloric Properties of Nano- and Polycrystalline Manganites $La_{(0.7-x)}Eu_xBa_{0.3}MnO_3$
Roman Atanasov, Rares Bortnic, Razvan Hirian, Eniko Covaci, Tiberiu, Florin Popa and Iosif Grigore Deac
Materials 2022, 15(21), 7645; Impact Factor: 3.1; Article Influence Score: 0.51.

<https://www.mdpi.com/1996-1944/15/21/7645>

Magnetic Properties and Magnetocaloric Effect of Polycrystalline and Nano-Manganites $Pr_{0.65}Sr_{(0.35-x)}Ca_xMnO_3$ ($x \leq 0.3$)

Roman Atanasov, Dorin Ailenei, Rares Bortnic, Razvan Hirian, Gabriela Souca, Adam Szatmari, Lucian Barbu-Tudoran and Iosif Grigore Deac

Nanomaterials 2023, 13(8), 1373; Impact Factor: 4.4; Article Influence Score: 0.684.

<https://www.mdpi.com/2079-4991/13/8/1373>

Magnetic and Magnetocaloric Properties of Nano- and Polycrystalline Bulk Manganites $La_{0.7}Ba_{(0.3-x)}Ca_xMnO_3$ ($x \leq 0.25$)

Roman Atanasov, Ecaterina Brinza, Rares Bortnic, Razvan Hirian, Gabriela Souca, Lucian Barbu-Tudoran and Iosif Grigore Deac

Magnetochemistry 2023, 9(7), 170; Impact Factor 2.6; Article Influence Score: 0.386

<https://www.mdpi.com/2312-7481/9/7/170>

Near-room-temperature magnetic properties and magnetocaloric effect of Polycrystalline and Nano-scale manganites $Pr_{0.65-x}Nd_xSr_{0.35}MnO_3$ ($x \leq 0.35$)

Roman Atanasov, Razvan Hirian, Rares Bortnic, Gabriela Souca, Adam Szatmari Lucian Barbu-Tudoran and Iosif Grigore Deac

Journal of Alloys and Compounds, 2024, 1004, 175932; Impact Factor 5.8; Article Influence Score: 0.787

<https://www.sciencedirect.com/science/article/pii/S0925838824025192?dcid=coauthor>

Recommendations

Available on demand

