



Ádám Szatmári

Date of birth:

| Nationality: Hungarian, Romanian | Gender: Male | Phone:

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WORK EXPERIENCE

2015 - 2018

PRACTICĂ

SC Robert Bosch SRL - Summer Practice in 2016 (Romania, Cluj Napoca-Jucu)

ZES Zollner Electronic SRL - Summer Practice in 2017 (Romania Satu Mare)

MVM Paksi Atomerőmű Zrt - Nuclear Plant - Summer Practice in 2018 (Hungary- Paks)

09/2018 - 09/2020 - CLUJ NAPOCA, ROMANIA

FIZICIAN UNIVERSITY BABEȘ-BOLYAI

Physicist on the project with code: PN-III-P4-ID-PCCF-2016-0112

09/2020 - 09/2022 - CLUJ NAPOCA, ROMANIA

ASISTENT DE CERCETARE UNIVERSITY BABEȘ-BOLYAI

Research assistant on the project with code: PN-III-P4-ID-PCCF-2016-0112

02/2022 - 08/2023 - SATU MARE, ROMANIA

PROFESOR DE FIZICĂ ȘI ELECTRONICĂ LICEUL ROMANO CATOLIC TEOLOGIC "HÁM JÁNOS"

Săptămânal:

- 14 ore Electronică
- 6 ore Fizică

18/09/2023 - 18/02/2024 - TÂRGU MUREȘ, ROMANIA

TECHNICIAN LABORATOR UNIVERSITAR UNIVERSITATEA SAPIENTIA

Asistent de laborator, Facultatea de Inginerie și Științe Umaniste, Universitatea Sapientia, Târgu Mureș, Departamentul de Inginerie Mecanică

18/09/2023 - 31/01/2024 - TÂRGU MUREȘ, ROMANIA

CADRU DIDACTIC UNIVERSITAR UNIVERSITATEA SAPIENTIA

Cadru didactic universitar plătit pe oră la Departamentul de Inginerie Electrică, Facultatea de Inginerie și Științe Umaniste, Universitatea Sapientia, Târgu Mureș, pentru cursurile Fizica I și Fizică fundamentală.

05/02/2024 - CURRENT - TÂRGU MUREȘ, ROMANIA

ASISTENT UNIVERSITAR UNIVERSITATEA SAPIENTIA

Asistent universitar la Departamentul de Inginerie Mecanică, Facultatea de Inginerie și Științe Umaniste, Universitatea Sapientia, Târgu Mureș, pentru cursurile Fizica, Bazele Fizicii și Teoria electricității.

● EDUCATION & TRAINING

14/09/2006 - 29/05/2014 - SATU MARE, ROMANIA

BACCALAUREATE- LICEUL ROMANO CATOLIC TEOLOGIC "HÁM JÁNOS"

30/09/2014 - 29/06/2018 - CLUJ NAPOCA, ROMANIA

BACHELOR OF SCIENCE (BSC)- UNIVERSITATEA BABEȘ-BOLYAI

Fizică Tehnologică

19/07/2018 - 04/07/2020 - CLUJ NAPOCA, ROMANIA

MASTER OF SCIENCE (MSC)- UNVIERSITATEA BABEȘ -BOLYAI

Fizica Solidului

31/08/2020 - 26/09/2025 - CLUJ NAPOCA, ROMANIA

PHD- UNIVERSITY BABEȘ-BOLYAI

Magnetic Nanoparticles For Biomedical Applications

● LANGUAGE SKILLS

Mother tongue(s): **HUNGARIAN**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B1	B2	B2	B1
ROMANIAN	C1	C1	C1	C1	C1
HUNGARIAN	C2	C2	C2	C2	C2

● HONOURS AND AWARDS

01/09/2022 Collegium Talentum
Bursa Collegium Talentum

01/09/2023 Collegium Talentum
Bursa Collegium Talentum

01/09/2024 Tempus
Bursa Tempus

01/01/2025 Tempus
Bursa Tempus

● PUBLICATIONS

Teză de Doctorat

"Enhanced Magnetic Properties of Cobalt Ferrite by Substitutions", 2025, UBB, Cluj Napoca.

XPS on Co_{0.95}R_{0.05}Fe₂O₄ Nanoparticles with R = Gd or Ho

Szatmári, Rares Bortnic, Tiberiu Dragoiu, Radu Georghe Hategan, Lucian Barbu-Tudoran, Coriolan Tiusan, Raluca Lucacel-Ciceo, Roxana Dudric and Romulus Tetea, Applied Science 2025, 15(15), 8313. Doi: <https://doi.org/10.3390/app15158313>.

The Influence of Light Rare-Earth Subst. on Electronic and Magnetic Prop. of CoFe₂O₄ Nanoparticles

Rares Bortnic, Ádám Szatmári, Tiberiu Dragoiu, R. Georghe Hategan, L. Barbu-Tudoran, Coriolan Tiusan, Raluca Lucacel-Ciceo, Roxana Dudric and Romulus Tetea, Nanoparticles. Nanomaterials 2025, 15(15), 1152. Doi: <https://doi.org/10.3390/nano15151152>.

Enhanced Magnetic Properties of Co_{1-x}MnxFe₂O₄ Nanoparticles

Adam Szatmari, Rares Bortnic, Roman Atanasov, Lucian Barbu-Tudoran, Fran Nekvapil, Roxana Dudric, and Romulus Tetea, Nanoparticles. Appl. Sci. 2025, 15, 290. Doi: <https://doi.org/10.3390/app15010290>.

Magn. Prop. and Magnetocal. Eff. of Polycryst. and Nano-Manganites Pr_{0.65}Sr_(0.35-x)CaxMnO₃(x ≤ 0.3)

Roman Atanasov, Dorin Ailenei, Rares Bortnic, Razvan Hirian, Gabriela Souca, Adam Szatmari, L. Barbu-Tudoran and I. G. Deac, Journal of Alloys and Compounds, Volume 1004, 2024, 175932, ISSN 0925-8388. Doi: <https://doi.org/10.1016/j.jallcom.2024.175932>.

The Influence of Zn Substitution on Physical Properties of CoFe₂O₄ Nanoparticles

Adam Szatmari, Rares Bortnic, Gabriela Souca, Razvan Hirian, Lucian Barbu-Tudoran, Fran Nekvapil, Cristian Iacovita, Emil Burzo, Roxana Dudric, and Romulus Tetea, Nanomaterials 2023, 13, 189. Doi: <https://doi.org/10.3390/nano13010189>.

New Insights into the Magnetic Properties of CoFe₂O₄@SiO₂@Au Magnetoplasmonic Nanoparticles

Rares Bortnic, Adam Szatmari, Gabriela Souca, Răzvan Hirian, Roxana Dudric, Lucian Barbu-Tudoran, Valentin Toma, Rares, Stiuftuc, Romulus Tetea, and Emil Burzo, Nanomaterials 2022, 12(6), 942. Doi: <https://doi.org/10.3390/nano12060942>.

Magnetite nanoparticles for medical applications

Roxana Dudric, Gabriela Souca, Ádám Szatmári, Tamás Szilárd, Stefan Nitica, Cristian Iacovita, Alin Iulian Moldovan, Rares Stiuftuc, Romulus Tetea, and Emil Burzo, AIP Conference Proceedings 2218, 030014 (2020), DOI: <https://doi.org/10.1063/5.0001198>.

Magnetite nanoparticles for medical application

Poster presenter at the conference: TIM 19 Physics Conference, 2019.

Synthesis and characterization of size and shape controlled CoFe₂O₄ nanoparticles with PVP usage

Co-author at the poster which was presented at the conference: TIM 19 Physics Conference, 2019.

Structural and morphological properties of core shell CoFe₂O₄@SiO₂@Au nanoparticles

Poster presenter at the conference: ICPAM-13, PAMS4 Advanced Materials Conference, 2021.

Structural, morphological and magnetic study of Co_{1-x}MxFe₂O₄ (M = Ni, Zn, Mn)

Oral presenter at the conference: ICPAM-14, PAMS5 Advanced Materials Conference 2022.

• **SKILLS**

Microsoft Word | Outlook | Microsoft Excel | Microsoft Powerpoint | Google Drive | Google Docs | Zoom | Microsoft Office | Social Media | Team-work oriented | Motivated | Analytical skills | Organizational and planning skills | Decision-making | Good listener and communicator | Written and Verbal skills | Critical thinking | Creativity | Responsibility | Flexibility | Good time management | Microsoft Teams

• **ALTE APTITUDINI**

2008 - CURRENT
Chitarist

2012

Permis de conducere

AM B1 B

● COMPETENȚE DE COMUNICARE ȘI INTERPERSONALE

Abilități interpersonale

Conștientizare

Colaborând și lucrând bine împreună cu ceilalți

Abilități de comunicare clare

Empatie pentru ceilalți

Flexibilitate în stilul de gândire și de operare

Umor

Toleranță și respect pentru membrii echipei

Abilități de comunicare

Ascultare activa

Semne nonverbale

Susceptibil

Respect

Empatie

Prietenie

09.01. 2026

Dr. ing. STANISLAV ADAM
[Signature]