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Matei-Mihai Crăciunescu

Nationality: Romanian **Date of birth:** 19/01/2001 **Gender:** Male **Email address:** matei.craciunescu19@gmail.com

WORK EXPERIENCE

Universitatea Babeș-Bolyai - Romania, Cluj-Napoca

Physicist

[30/09/2024 - 30/09/2025]

- taking part in various measurements and analyses carried out as part of the project and in regular scientific meetings with project members

-supervising laboratory activities for undergraduate students

-analyzing and interpreting scientific results and data obtained within the project, and drafting scientific reports

-monitoring the temperature generated by synthesised nanoparticles

-manufacturing microfluidic devices

EDUCATION & TRAINING

PhD in Physics

Doctoral School of Physics, Babeș-Bolyai University [29/09/2025 - Current]

City: Cluj-Napoca | **Country:** Romania

Master of Science in Biophysics and Medical Physics

Physics Faculty, Babeș-Bolyai University [02/10/2023 - 02/07/2025]

City: Cluj-Napoca | **Country:** Romania

Field(s) of study: Biophysics and Medical Physics: | **Type of credits:** ECTS | **Number of credits:** 120 | **Thesis:** Fabrication of Microfluidic Devices for Integrated Thermoplasmonic Applications

Bachelor of Science in Medical Physics

Physics Faculty, Babeș-Bolyai University [27/09/2020 - 05/07/2023]

Address: Strada Mihail Kogălniceanu 1400084, CLUJ-NAPOCA (Romania) | **Website:** http://phys.ubbcluj.ro/ | **Field(s) of study:** Medical Physics: | **Type of credits:** ECTS | **Number of credits:** 180 | **Thesis:** Fabrication of Microfluidic Devices

Highschool graduation

National College „Petru Rareș" Suceava [11/09/2016 - 02/07/2020]

Address: Str. Mihai Viteazu, Nr. 24720059, Suceava (Romania) | **Website:** http://cnprsv.ro/

LANGUAGE SKILLS

Mother tongue(s): Romanian

English

LISTENING: C1 **READING:** B2 **WRITING:** B2

German

LISTENING: B1 **READING:** B1 **WRITING:** A2

SPOKEN PRODUCTION: B2
SPOKEN INTERACTION: C1

SPOKEN PRODUCTION: A2
SPOKEN INTERACTION: B1

SKILLS

IC3 – Global Standard 4 | microscopic techniques | production processes | analyse experimental laboratory data | spectroscopy | nanotechnology | nanomaterials | Microsoft Office

PUBLICATIONS

[2026]

Synergistic Dual Photothermal-Photodynamic Nanoplatform via BSA-Stabilized Gold Nanospheres for SelectiveMelanoma Phototherapy

R. Borlan, **M. Craciunescu**, A. Balmus, O. Andercou, M. Muntean, O. Soritau, S. Asilean, Marc Lamy de la Chapelle, M. Focsan

Journal Name: Materials & Design | **Volume, Issue and Pages:** 270,116862 | **Publisher:** Elsevier

PROJECTS

[30/09/2024 - 30/09/2025]

Plasmon mediated biology: Exploitation of plasmonics to investigate and enhance biological processes and application to biomedical issues (acronym: BioPlasmonics) Physicist within the project Plasmon-mediated biology: Exploitation of plasmonics to investigate and enhance biological processes and their application to biomedical issues (acronym: BioPlasmonics)

HONOURS AND AWARDS

[06/10/2025] Universitatea Babeș-Bolyai
Internal Grant Competition

CONFERENCES & SEMINARS

[16/05/2025 - 16/05/2025] Physics Faculty, Universitatea Babeș-Bolyai, Cluj-Napoca

Physics Faculty Day Oral presentation "Development of microfluidic devices for thermoplasmonic applications"

[30/08/2026 - 03/09/2026] Cluj-Napoca

21st European Conference on the Spectroscopy of Biological Molecules Poster presentation "Integrated Plasmonic Paper-Based SERS Biosensors for Wearable Sweat Biomarker Monitoring"