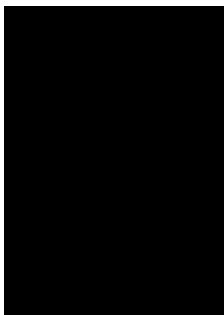


## PERSONAL INFORMATION

## Grădinaru Mădălina Irina



✉ [madalina.mateescu93@e-uvt.ro](mailto:madalina.mateescu93@e-uvt.ro)

Sex Fem | Date of birth [REDACTED] | Nationality Romanian

## WORK EXPERIENCE

- 01.01.2022- Present **Asistent de Cercetare**  
 ICAM, UVT  
 Identificare directii de cercetare, Analiza interactiilor dintre substante, Analizarea probelor rezultate din activitatea de cercetare, Scriere articole.
- 15.03.2020- Present **Responsabil Produs**  
 ACI World Wide  
 Definirea funcționalităților noi în proiect, planificarea activităților din proiect, definirea specificatiilor de calitate
- 15.03.2020- 01.10.2021 **Inginer Asigurarea Calitatii**  
 ACI World Wide  
 Monitorizarea si asigurarea calitatii. Inspectarea și testarea materialelor, proceselor si a produsului pentru a asigura indeplinirea criteriilor de specificatie
- 09.12.2019 – 15.03.2020 **Referent de specialitate**  
 Departamentul pentru Managementul Calitatii, West University of Timisoara  
  - Monitorizarea standardelor elaborate de ARACIS și asigurarea implementarii acestora,
  - Monitorizarea dosarelor de acreditare la nivel de CBG, FEEA
- 01.02.2016 - 06.12.2019 **Chimist, Departamentul de Cercetare si Dezvoltare**  
 B. Braun Pharmaceuticals SA  
  - Dezvoltare metode analitice, validare metode, transfer de metode catre alte laboratoare. Analize UV-VIS, titrati, cromatografie de gaze, HPLC.
  - Principalele proiecte: Determinarea enzimatica a lactozei/ acidului citric. Definire metoda determinare cantitativa mepivacaina, malic acid, lactat. Determinarea EDTA, phosphate.
- 27.03.2014 - 01.02.2016 **Chemist, Chemical Laboratory (Quality Control)**  
 B. Braun Pharmaceuticals SA  
  - Analiza controlului in timpul procesului, cromatografie in strat subtire, teste puritate materii prime. Analiza FT-IR, UV-VIS, absorptie atomica.

## EDUCATION AND TRAINING

- 01.10.2019 - 2021 **Masterat Software engineering**  
**West University of Timișoara, Faculty of Chemistry, Biology, Geography**  
 Sisteme distribuite, Angular, Sisteme de calcul. Analiza datelor in R
- 2016 - 2021 **Doctorat in Chimie**  
 Titlu teza: Studiul fizico-chimic al unor substanțe de interes farmaceutic, utilizate în eliberarea treptată



**Universitatea de Vest din Timișoara, Facultatea de Chimie, Biologie, Geografie**

01.09.2019 - 01.03.2020

**Curs Java**
**Software development Academy**

Fundamentele JAVA, introducere Git Hub, Fundamentele codarii

2014 - 2016

**Masterat Chimie Criminalistică**
**Universitatea de Vest din Timișoara, Facultatea de Chimie, Biologie, Geografie**

▪ Analiza chimica de urme, chimie si toxicologie, tehnici de investigare IT si audio-video.

2011 - 2014

**Licență în Chimie**
**Universitatea de Vest din Timișoara, Facultatea de Chimie, Biologie, Geografie**

▪ Chimie organica si anorganica, Tehnologie Chimica si Fizica, analize de laborator, utilizarea instrumentelor specifice laboratorului de chimie.

2007 - 2011

**Forest Technology High-School**
**Sighetu Marmatiei**

▪ AutoCAD, operarea sistemelor de retea, asamblarea sistemelor de calcul, securitatea sistemelor de calcul.

**PERSONAL SKILLS**

Mother tongue(s) Romana

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
German	A1	A1	A1	A1	A1

Communication skills ▪ Abilități de comunicare obținute în urma experienței de voluntariat și în urma participării la multiple conferințe.

Organisational / managerial skills ▪ Abilități bune de organizare, dobandite prin participări în proiecte precum: StudentFest, West Summer University

Job-related skills ▪ Abilitati de analiza in timpul procesului, in industria farmaceutica.

Computer skills ▪ Utilizarea MS Office

Other skills ▪ Atitudine pozitivă, capacitate de muncă în echipă, comunicativă.

Driving licence ▪ B ( din 2015)

**ADDITIONAL INFORMATION**

Projects and  
Conferences

- 31<sup>st</sup> Symposium on Thermal Analysis and Calorimetry "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy, Resita, Romania, 2022
- 1<sup>st</sup> Central and Eastern European Conference on Physical Chemistry & Materials Science (CEEC-PCMS1), Split, Croatia, 2022
- XLII National Conference on Calorimetry, Thermal Analysis and Applied Thermodynamics, Udine, Italia, 2020
- 5<sup>th</sup> Central and Eastern European Conference on Thermal Analysis and Calorimetry & 14<sup>th</sup> Mediterranean Conference on Calorimetry and Thermal Analysis (CEEC-TAC5 & Medicta), Roma, Italy, August, 2019,
- 28<sup>th</sup> Symposium on Thermal Analysis and Calorimetry- Eugen Segal of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy & 2nd Symposium on Thermal Analysis and Calorimetry of Moldova (CATCAR28 & MOLDTAC2), Timisoara, Romania, MAI, 2019
- 12<sup>th</sup> European Symposium on Thermal Analysis and Calorimetry (ESTAC12), 27-30 August, 2018.
- 4<sup>th</sup> Central and Eastern European Conference on Thermal Analysis and Calorimetry; 28-31 August, 2017
- International Conference "Students for Students" 9-13 April 2014, Cluj Napoca
- Student Scientific Session 01/07/2014 Timișoara - "Phenol water adsorption on different adsorbent materials"
- Conference "Nanomaterials - from waste to state-of-the-art" Academic Days of Timisoara 2013
- Conference "Heavy metals as contaminants of the environments", 05.17.2013, Timisoara
- Students Scientific Circle Principles "XV Edition, 4/26/2013, Timisoara
- International Conference "Students for Students" 10-14 April, 2013, Cluj Napoca,
- Student Scientific Session 09/07/2012, UVT
- Students Scientific Circle Principles "XIV Edition" 05.04.2012, Timisoara
- 9<sup>th</sup> Edition of the International Conference "Students for Students" 10-13 May 2012, Cluj Napoca

## Volunteering

- "Veronica Chiriac" Inorganic Chemistry competition, 2018, Faculty of Chemistry, Biology and Geography, UVT
- Inorganic Chemistry "Veronica Chiriac" 22/05/2014, Faculty of Chemistry, Biology and Geography, UVT
- Student Organization of the West University of Timisoara, active member of Social Education and Research and Human Resources departments, (projects: Studentfest PARADOX, Democrația in UVT, West Summer University) from 2012
- "George Ostrogovich" Organic Chemistry competition, 05/18/2013, Faculty of Chemistry, Biology and Geography, UVT
- "Veronica Chiriac" Inorganic Chemistry competition, 27/04/2013, Faculty of Chemistry, Biology and Geography, UVT
- "Open Days" of the Biology-Chemistry Department, UVT, 2-5.04.2013
- Altitude Association Branch Banat in the Natura 2000 sites, 15.06.2012- 03.07.2012

## Publications

1. Liviana Popescu, Mădălina Mateescu, Dorothea Bajas, Cristina Bugnariu, Gabriela Vlase, Daniela Jumanca, Titus Vlase, "Study of thermally induced interactions between theobromine and various sweeteners", *Journal of Thermal Analysis and Calorimetry*, 2019, DOI: 10.1007/s10973-019-08826-0.
2. Titus Vlase, Paul Albu, Adriana Ledetj, Denisa Circioban, Madalina Mateescu, Codruța Moșoiu, Vlase Gabriela, "Thermal behavior of entacapone, a catechol-O-methyltransferase inhibitor used in Parkinson's diseases", *Journal of Thermal Analysis and Calorimetry*, 2018, 134(3), DOI:10.1007/s10973-018-7097-y
3. Gabriela Vlase, Paul Albu, Sorin Cristian Doca, Madalina Mateescu, Titus Vlase, „The kinetic study of the thermally induced degradation and an evaluation of the drug–excipient interactions performed for a new-generation bisphosphonate—risedronate”, *Journal of Thermal Analysis and Calorimetry*, 2018, 134(6), DOI: 10.1007/s10973-018-7216-9
4. Paul Albu, Mihaela Budiul, Mădălina Mateescu, Vlad Chiriac, Gabriela Vlase, Titus Vlase, "Studies regarding the induced thermal degradation, kinetic analysis and possible interactions with various excipients of an osseointegration agent: zoledronic acid", *Journal of Thermal Analysis and Calorimetry*, 2017, 130(1):1-6. DOI 10.1007/s10973-017-6537-4
5. Madalina Mateescu, Mihaela Budiul, Paul Albu, Gabriela Vlase, Titus Vlase, "Thermal behavior and kinetic study of degradation for adamantan-2-one versus memantine hydrochloride", *Journal of Thermal Analysis and Calorimetry*, 2017, June 2017, 130(1):1-6, DOI 10.1007/s10973-017-6443-9
6. Mădălina MATEESCU, Gabriela VLASE, Daniela JUMANCA2, Atena GALUSCAN, Claudiu AVRAM, Titus VLASE, "Comparative study regarding thermal behaviour of mixtures based on hydroxyapatite and methacrylate for dental use", *Mater. Plast.*, 58(1):1-10.
7. Dorothea Bajas, Gabriela Vlase, Mădălina Mateescu, Oana Alexandra Grad, Mădălin Bunoiu, Titus Vlase and Claudiu Avram, "Formulation and Characterization of Alginate-Based Membranes for the Potential Transdermal Delivery of Methotrexate", *Polymers*, 2021, 13, 161.
8. Cristina-Adela Marioane , Mădălin Bunoiu, Mădălina Mateescu, Paula Sfirioagă, Gabriela Vlase, and Titus Vlase "Preliminary Study for the Preparation of Transmucosal or Transdermal Patches with Acyclovir and Lidocaine", *Polymers*, 2021, 13, 3596.
9. Mateescu, M., Vlase, G., Budiul, M.M., Cernușcă, B.D., Vlase, T. Preliminary study for preparation and characterization of medicated jelly based on Ibuprofen or Ambroxol, *Journal of Thermal Analysis and Calorimetry*, 2023, 148(10), 4601-4614.

## Reference

Dr. Mihaela Budiul (Faculty of Chemistry, Biology, Geography, UVT)  
 Prof. dr. Gabriela Vlase (Faculty of Chemistry, Biology, Geography, UVT)