



Ghizela-Ana-Maria Salagean

Date of birth: _____ | **Nationality:** _____ | **Gender:** _____ | **Phone number:** _____
| **Email address:** _____ | **Website:** _____
| **Address:** _____

WORK EXPERIENCE

ESTRO

FULL MEMBER ESTRO POSITIONING & IMMOBILISATION FOCUS GROUP – 02/2024 – CURRENT

ESTRO

FULL MEMBER ESTRO BREAST FOCUS GROUP – 01/11/2023 – CURRENT

UNIVERSITY OF BABES-BOLYAI – CLUJ NAPOCA, ROMANIA

UNIVERSITY TEACHING ASSISTANT – 01/10/2021 – 2022

- responsible for Laboratory activity

TOPMED MEDICAL CENTRE – TARGU MURES, ROMANIA

MEDICAL PHYSICIST – 01/03/2021 – CURRENT

- Machine-specific QA and patient-specific QA
- Generates clinically optimal treatment plans utilizing the treatment planning system (Monaco 5.11, Mosaiq - for Elekta machine)
- Communicates with the radiation oncologist during the treatment planning process and participates in communicating the plan to the radiation therapy technologists for plan implementation.
- Utilizes critical thinking skills when performing radiation treatment planning, plan evaluation, and recognizing and resolving equipment problems and treatment discrepancies.
- Applies knowledge of radiobiology with respect to dose tolerances, time dose fractionation calculations, hypofractionation, BED and EQD2 calculations and other applications of radiobiology to the radiation therapy treatment process.
- Participates in the acquisition of patient data via computer-generated data sets from medical imaging devices such as CT, RMN, etc., or manual methods such as physical measurements, and incorporation of these data into radiation treatment plans, calculations, and treatment devices.

ONCOLOGY INSTITUTE „PROF. DR. ION CHIRICUȚĂ” – CLUJ-NAPOCA, ROMANIA

PHYSICIST – 01/04/2019 – 01/03/2021

- Machine-specific QA and patient-specific QA
- Generates clinically optimal treatment plans utilizing the treatment planning system (Eclipse 15.6, Aria- Varian Linac, Theraplan -for cobalt machine)
- Communicates with the radiation oncologist during the treatment planning process and participates in communicating the plan to the radiation therapy technologists for plan implementation.
- Utilizes critical thinking skills when performing radiation treatment planning, plan evaluation, and recognizing and resolving equipment problems and treatment discrepancies.
- Applies knowledge of radiobiology with respect to dose tolerances, time dose fractionation calculations, hypofractionation, BED and EQD2 calculations and other applications of radiobiology to the radiation therapy treatment process.

ROMANIAN AGENCY FOR QUALITY ASSURANCE IN HIGHER EDUCATION – CLUJ-NAPOCA, ROMANIA

EVALUATOR STUDENT – 01/10/2018 – 01/10/2020

- accreditation of faculties/ universities
- checking that student's rights and needs are respected

PROIECT ROSE –YES2PHYS – CLUJ-NAPOCA, ROMANIA

STUDENT CONSULTANT – 12/2019 – 08/2020

- helping 1st-year students adjust to student life
- helping students with classes

THE YOUTH COUNCIL OF ROMANIA – CLUJ-NAPOCA, ROMANIA

CONSILIER – 2018 – 2020

- representing the rights and needs of the young from my area

PROJECT "FIZICA MINUANTĂ -QUARC" /"WONDERFUL PHYSICS-QUARC" – CLUJ-NAPOCA, ROMANIA

SUPERVISOR STUDENT – 15/07/2018 – 31/07/2018

COUNCIL OF FACULTY OF PHYSICS – CLUJ NAPOCA, ROMANIA

CANCELAR / CHANCELLOR – 2017 – 2018

- representing the rights and needs of students in the faculty council

COUNCIL OF FACULTY OF PHYSICS – CLUJ-NAPOCA, ROMANIA

MEMBER IN STUDENTS COUNCIL – 2015 – 2018

- representing the rights and needs of students in the faculty council

PROJECT "FIZICA MINUANTĂ -QUARC" /"WONDERFUL PHYSICS-QUARC" – CLUJ-NAPOCA, ROMANIA

SUPERVISOR STUDENT – 16/07/2017 – 31/07/2017

● **EDUCATION AND TRAINING**

15/05/2025 – 21/06/2025 online

SHIELDING DESIGN FOR LINEAR ACCELERATORS BeamHub

22/05/2025 Bucuresti, Romania

CERTIFICATE OF ATTENDANCE DIAGNOSTIC DE PRECIZIE SI TERAPIE ONCOLOGICA PERSONALIZATA - PREZENT SI VIITOR

Neolife Bucuresti

05/12/2024 – 08/12/2024 Budapest, Hungary

CERTIFICATE OF ATTENDANCE -(ACCELERATED) PARTIAL BREAST IRRADIATION European Society for Radiotherapy and Oncology

05/2023 – 2024 Romania

MENTORING PROGRAM, MENTEE POSITION ESTRO

11/2022 – CURRENT

WG "VOLUMETRIC MODULATED ARC THERAPY-BREAST" OBSERVER EFOMP

11/2022 – CURRENT

SIG "EARLY CAREER MEDICAL PHYSICISTS" EFOMP

01/10/2021 – CURRENT

PHD CANDIDATE University of Babes-Bolyai, Faculty of Physics

30/05/2024 – 01/06/2024 Catania, Italy

COURSE ON THE BASIS OF SBRT FOR PHYSICISTS

08/04/2024 – 12/04/2024 Trieste, Italy

SCHOOL OF HADRON THERAPY ICTP

22/03/2024 Cluj Napoca, Romania

INTRODUCTION IN STEREOTACTIC RADIOTHERAPY

18/12/2023 – 20/12/2023 Istanbul, Türkiye

SRS/SRT IN MANAGEMENT OF INTRACRANIAL METASTASES, PARENCHYMAL BRAIN TUMORS, GENITOURINARY, GYNECOLOGICAL, AND ABDOMINAL CANCERS; MEDICAL PHYSICS AND IMAGING FOR RADIOSURGERY. ISRS Educational Course, Istanbul 2023

Website <https://aimes.org/isrs-educational-course/>

13/11/2023 – 27/11/2023 Romania

RADIOPROTECTION COURSE LEVEL 3 AC RAD Medical consult & Service

Website www.radmedical.ro

09/2023 – 10/2023 Turin, Italy

ESTRO PHYSICS WORKSHOP - TEMPO - TEMPORAL OPTIMIZATION AND PERSONALIZATION OF THE RADIATION TREATMENT COURSE ESTRO

12/07/2023 – 15/07/2023 Prague, Czechia

ESMPE- SBRT COURSE EFOMP

11/2022 – 2023 Lisbon, Portugal

ESTRO PHYSICS WORKSHOP - NEXT GENERATION MR-GUIDED RADIOTHERAPY: AI APPLICATIONS FOR PLANNING AND IMAGE GUIDANCE ESTRO

06/2022 Cluj Napoca, Romania

TEACHING LECTURE : INSIGHTS ON ACADEMIC WRITING Babes-Bolyai University Cluj Napoca

09/02/2022 – 10/02/2022

CERTIFICATE OF ATTENDANCE: GEC-ESTRO ONLINE WORKSHOP 2021 GEC-ESTRO Committee

15/03/2021 – 25/03/2021 Targu Mures, Romania

MONACO IMRT/VMAT VIRTUAL CLASSROOM REU Elekta Certificate of Completion

03/2021 Targu Mures, Romania

ELEKTA - MONACO PHYSICS Monaco Physics Virtual Classroom REU

01/2021 Romania

PERMIS NIVEL 2/ CERTIFICATE LEVEL 2 CNCAN - The National Commission for Nuclear Activities Control

11/2020 Cluj Napoca, Romania

VARIAN ADVANCED TECHNIQUES CLINICAL SCHOOL (IMRT/RAPIDARC) Varian

2018 – 2020 Cluj-Napoca, Romania

MASTER - BIOPHYSICS AND MEDICAL PHYSICS Faculty of Physics, University of Babes-Bolyai, Cluj-Napoca

2018 – 2020 Cluj-Napoca, Romania

PSYCHO-PEDAGOGICAL MODULE LEVEL 2/MODULUL PSIHO-PEDAGOGIC NIVEL II University of Babes-Bolyai Cluj-Napoca

09/2019 Bucharest, Romania

TRAINING COURSES FOR EVALUATOR STUDENTS Romanian Agency for Quality Assurance in Higher Education

2016 – 2019 Cluj-Napoca , Romania

BACHELOR DEGREE, SPECIALIZATION-COMPUTER PHYSICS Faculty of Physics, University of Babes-Bolyai, Cluj-Napoca

2016 – 2018 Cluj-Napoca, Romania

PILOT COURSES FOR ULTRA-LIGHT MOTORIZED AIRCRAFT (ULM) Aeroclubul Romaniei

2015 – 2018 Cluj-Napoca , Romania

BACHELOR DEGREE SPECIALIZATION - MEDICAL PHYSICS Faculty of Physics, University of Babes-Bolyai, Cluj-Napoca

2015 – 2018 Cluj-Napoca, Romania

PSYCHO-PEDAGOGICAL MODULE LEVEL 1/MODULUL PSHIO-PEDAGOGIC , NIVEL I University of Babes-Bolyai Cluj-Napoca

25/10/2017 Cluj-Napoca, Romania

WORKSHOP - APPLICATIONS OF ATOMIC FORCE MICROSCOPY IN MATERIALS SCIENCE AND BIOMEDICAL RESEARCH Technical University of Cluj-Napoca

07/2017 Vilnius, Lithuania

YOUTHPASS : YOUTH EXCHANGES - INVENT IT, BANK IT

01/08/2015 – 30/06/2017 Timisoara/Cluj-Napoca, Romania

YOUTHPASS : YOUTH IN POLICY DIALOGUE (STRUCTURED DIALOGUE PROJECT)

01/07/2016 – 14/07/2016 Cluj-Napoca, Romania

PRACTICE STUDENT Radiotherapy Amethyst Cluj Napoca

2016

OPERATOR IN AERONAUTICAL MOBILE AND AERONAUTICAL MOBILE SERVICES BY SATELIT Romanian Aeroclub

2011 – 2015 Sarmasu, Romania

HIGH SCHOOL DIPLOMA Theoretical High School "Samuil Micu" Sarmasu**Field of study** Natural sciences, mathematics and statistics

2009 Targu Mures, Romania

FIRST AID COURSE Mobile Emergency Service for Resuscitation and Extrication (SMURD)**LANGUAGE SKILLS**Mother tongue(s): **HUNGARIAN** | **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2
FRENCH	B1	B2	A2	A2	A2

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user***SKILLS**

Microsoft Word | Microsoft Powerpoint | Microsoft Office | Google Drive | Zoom | Skype | Google Docs | LinkedIn | Power Point | Microsoft Excel | Social Media | - SQL – Basic | MatLab (basics) | Python basic | Monaco Elekta Treatment Planning System | Varian Eclipse Treatment Planning System | R&V Systems: MOSAIQ 2.0 (Elekta) and ARIA (Varian)

PUBLICATIONS

2025

[Can the daily position of bolus material influence radiotherapy treatment?](#)

Salagean GA, Bálint Z, Poortmans P, Portik D.

Journal Name: Report of Practical Oncology and Radiotherapy | **Volume, Issue and Pages:** 2025 Feb 19;29(6):732-739

2024

[Challenges and opportunities in the development and clinical implementation of artificial intelligence based synthetic computed tomography for magnetic resonance only radiotherapy](#)

Radiother Oncol. 2024 Jun 15;198:110387. doi: 10.1016/j.radonc.2024.110387.

Villegas F, Dal Bello R,[...] Salagean GA,[...] Cusumano D.

2023

[Daily Bolus Position Variability with Dosimetric Implications in Adjuvant Breast Cancer Radiotherapy](#)

ESTRO2023 Abstract book

2023

[In Vivo Lens Dosimetry in a Case of En Face Electron Adjuvant Radiotherapy for Cutaneous Nasal Bridge Basal Cell Carcinoma – a Case Report](#)G.A-M. Salagean^{1, 2}, K. Varga¹, Z. Balint², D. Portik¹ DOI:10.53011/JMRO.2023.02.09**DRIVING LICENCE****Driving Licence:** AM**Driving Licence:** B1

Driving Licence: B

CONFERENCES AND SEMINARS

29/05/2025 – 30/05/2025 Cluj- Napoca
Cluj Innovation Days 2025

Poster - [Moldable compensators for radiation therapy](#) Award

02/05/2025 – 06/05/2025 Vienna, Austria
ESTRO (European Society for Radiotherapy and Oncology) 2025

Scientific programme committee - young track - member

Chair at Session - Young track - The Next Generation! Engage!

ePoster Title: Characterization of a homemade moldable material to be used as bolus in radiotherapy, Presentation Number: E25-183

Chair and Oral Presentation at RTT Meet & Greet session

24/10/2024 – 27/10/2024 Sinaia
Participant -SRROM(Romanian Society of Radiotherapy and Medical Oncology) 2024

Chair at Physics session: *MEDICAL PHYSICS WORKSHOP BETWEEN PROFESSIONAL UPDATE AND BASIC TRAINING*

02/05/2024 – 07/05/2024 Glasgow, UK
Participant - ESTRO (European Society for Radiotherapy and Oncology) 2024

Co-chair at **Symposium : Image guidance in radiotherapy: Should we break bonds with daily kV imaging?**

02/11/2023 – 05/11/2023 Cluj-Napoca, Romania
Lector at SRROM (Romanian Society of Radiotherapy and Medical Oncology)

Comparison of Volumetric Modulated ARC Therapy vs. Intensity Modulated Radiation Therapy in the Case of Whole Brain Irradiation with Hippocampal Sparing

11/07/2023 – 12/07/2023
Speaker - Global Summit on Breast and Women's Cancer

Presentation : Comparison Of Volumetric Modulated Arc Therapy Vs. Helical Tomotherapy Treatment Planning In A Case Of Implanted Breast Tissue Expander

12/05/2023 – 16/05/2023 Vienna, Austria
Participant - ESTRO (European Society for Radiotherapy and Oncology) 2023

ePoster Title: Daily Bolus Position Variability with Dosimetric Implications in Adjuvant Breast Cancer Radiotherapy, Certificate of Attendance

Co-chair at **Symposium : Photon treatment planning**

27/03/2023 – 28/03/2023 London, UK (Hybrid event)
Speaker at "Scholars International Conference on Physics and Quantum Physics"

Presentation : "Comparison of Treatment Planning Techniques for a Synchronous Bilateral Breast Cancer Patient in the Setting of a Hypo fractionated Approach"

04/11/2022 – 05/11/2022 Oradea
Lector at National Congress of Medical Physicist

Poster: "Comparison of Volumetric Modulated Arc Therapy Vs. Helical Tomotherapy Treatment Planning in a Case of Implanted Breast Tissue Expander "

13/10/2022 – 15/10/2022 Cluj-Napoca
Lector at SRROM (Romanian Society of Radiotherapy and Medical Oncology) 2022,

Presentation: Dosimetric Results Of Electron Radiotherapy For Nasal Bridge Basal Cell Carcinoma

13/10/2022 – 15/10/2022 Targu Mures
Lector at Multidisciplinary Conference: The need for multidisciplinary intervention from diagnosis to the optimal therapeutic solution, 6th Edition

Presentation: Dosimetric Results Of Electron Radiotherapy For Nasal Bridge Basal Cell Carcinoma

03/06/2022 – 04/06/2022 Cluj-Napoca

Lector at " Modern radiotherapy techniques" Postgraduate course for RTTs , XV edition

Presentation "Internal Audit -Bolus Positioning "

06/05/2022 – 10/05/2022 Copenhagen, Denmark

Participant - ESTRO(European Society for Radiotherapy and Oncology) 2022

Certificate of Attendance - The conference theme: Learning from every patient
25 CME credits

14/10/2021 – 16/10/2021 Online event

Lector -SRROM(Romanian Society of Radiotherapy and Medical Oncology) 2021, " Innovative therapies in precision oncology"

Speaker: "Comparison of treatment planning techniques for a synchronous bilateral breast cancer patient in the setting of a hypofractionated approach"
18 CME credits

27/08/2021 – 31/08/2021 Madrid, Spain

Participant - ESTRO (European Society for Radiotherapy and Oncology)2021

Certificate of Attendance - The conference theme: Optimal Radiotherapy for all
19 CME credits

09/07/2021 – 11/07/2021 Craiova, Romania/ (Online)

Lector at "Therapeutic synergies in oncological pathology. The perspective of young radiotherapists "

Speaker: "Comparison of treatment planning techniques for a synchronous bilateral breast cancer patient in the setting of a hypofractionated approach"/ "Compararea tehnicilor de iradiere in cazul cancerului mamar bilateral cu doza hipofractionata"
15 CME credits

17/10/2019 – 19/10/2019 Cluj Napoca

Participant -SRROM(Romanian Society of Radiotherapy and Medical Oncology) 2019

Participant at " the 29th Annual SRROM Congress" with the theme "The multidisciplinary and complexity of cancer - a continuing challenge"
18 CME credits

16/05/2025 – 17/05/2025 Cluj-Napoca

Lectro - Best of ASTRO 2025

VOLUNTEERING

04/2017 Cluj-Napoca Romania

Voluntary at Saturday of experiments -Faculty of Physics

2016 – 2019 Cluj-Napoca Romania

Voluntary ASFUBB(UBB Physics Students Association)

2015 – 2019 Cluj-Napoca Romania

Conector/Voluntary The Youth Council of Romania

2015 – 2018 Cluj-Napoca Romania

Voluntary OSUBB (Student Organisation from Babes-Bolyai University)- Educational Department

2015 – 2019 Cluj-Napoca Romania

Conector/Voluntary The Youth Council of Romania

2014 – 2015 Targu Mures Romania

Voluntary UPU-SMURD Tg Mures
