

CURRICULUM VITAE

PERSONAL DATA

Name: Dr. Tamás Pócza
Email: poczatamas87@gmail.com
Location: Budapest
Medical Physicist Expert
Radiation Protection Expert



PROFILE

Senior medical physicist with approximately 15 years of clinical experience in radiotherapy physics, holding a PhD in Medical Physics and Clinically Qualified Medical Physicist certification. Extensive expertise in dosimetry, quality assurance, commissioning, and clinical implementation of advanced radiotherapy technologies. Proven track record in developing standardized workflows, contributing to dosimetry auditing, and supporting education and training at national and international levels. Strong commitment to capacity building, harmonization of practices, and continuous professional development.

KEY EXPERTISE

Radiotherapy Physics (External Beam Radiotherapy, SBRT, IMRT, VMAT, ART)
Radiobiological Modelling
Reference and Small Field Dosimetry (IAEA TRS-398, TRS-483)
Quality Assurance and Dosimetry Auditing
Commissioning and Treatment Planning System Evaluation
Radiation Protection and Regulatory Compliance
Training and Capacity Building in Medical Physics

EDUCATION

2012-2022	Budapest University of Technology and Economics Doctoral School of Physical Sciences
2012-2017	Semmelweis University Clinical Medical Physicist training
2010-2012	Budapest University of Technology and Economics MSc in Physics (Specialization for Medical Physics)
2006-2010	Budapest University of Technology and Economics Physics BSc

LANGUAGES

Hungarian – Native

English – Working proficiency

German – Intermediate

PROFESSIONAL EXPERIENCE

Clinical Medical Physicist

National Institute of Oncology, Budapest, Hungary

2018 – present

- Commissioning, beam modelling, and validation of linear accelerators
- Development and implementation of QA systems for IMRT, VMAT, SBRT
- Clinical introduction of SGRT
- Development of protocols for contouring and treatment planning
- Participation in national dosimetry audits aligned with IAEA methodologies
- Radiation Protection Officer responsibilities

Medical Physics and Radiation Protection Expert (Part-time)

Self-employed

2022 – present

- Commissioning support for linear accelerators
- Radiation protection consulting
- Lecturer and examiner in national training programmes

Researcher – EU SECURE Project (Part-time)

Budapest University of Technology and Economics

2022 – 2025

- Contribution to alpha therapy safety recommendations
- International collaboration in multidisciplinary teams

Clinical Medical Physicist

Csolnoky Ferenc Hospital, Veszprém, Hungary

2015 – 2018

- Commissioning of two linear accelerators
- Establishment of radiotherapy center workflows
- Development of QA and treatment planning protocols

Medical Physicist

National Institute of Oncology, Budapest, Hungary

2011 – 2015

- Lead SBRT implementation
- Development of clinical workflows and verification processes

RESEARCH ACTIVITY

Full list available on Google Scholar

EDUCATIONAL ACTIVITY

Lecturer in Medical Physics (BSc, MSc)

Supervisor of theses

Clinical trainer for residents

Lecturer for medical students and RTTs

Radiation protection trainer and examiner

PROFESSIONAL MEMBERSHIPS

Hungarian Society for Radiation Oncology

Hungarian Society of Medical Physics (secretary 2016 - 2020)

European Society for Radiotherapy and Oncology (ESTRO)

European Federation of Organizations for Medical Physics (EFOMP)

Roland Eötvös Physics Society

DOMESTIC AND FOREIGN TRAININGS

2013 - IMRT Treatment Planning Hands-on Course, Haarlem

2013 - Fundamentals of Clinical Radiation Physics and Radiation Planning, NIO

2013 - Brachytherapy advanced training course, NIO

2014 - Diagnosis and complex therapy of tumors, NIO

2014 - QA and Dosimetry of Emerging Radiotherapy Techniques, Tallinn

2014 - ESTRO: Clinical Practice and Implementation of Image-Guided Stereotactic Body Radiotherapy, Florence

2014 - ESTRO: Advanced Treatment Planning, Budapest

2015 - EUTEMPE-RX MPE01 - Development of the profession and the challenges for the MPE (Diagnostic and Interventional Radiology), Prague

2015 - ESTRO: Dose Modeling and Verification for External Beam Radiotherapy, Barcelona

2016 - ENETRAPIII training course, Budapest

2017 - ESTRO: Comprehensive and Practical Brachytherapy, Budapest

2018 - AAPM-ISEP course: Challenges in Modern Radiation Therapy Physics, Ljubljana

2019 - ESTRO: IMRT and other conformal techniques, Budapest

2019 - Train-the-Trainers Regional Training Course for Radiation Protection Officers, Tallinn

2022 - Clinical Medical Physics, NIO

PROFESSIONAL PRIZES

2012 Alps-Adria Award (5th Alpe-Adria Medical Physics Meeting)

2023 Best Young Physicist Speaker (XVI Congress of the Hungarian Society for Radiation Oncology)