

Maria Varaka

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Strong communicative and organized person due to tutoring experience, able to work efficiently both individually and in a team environment. Hands on medical radiation physics through different internships. Consistent scientist with outstanding time management and self-motivation.

EDUCATION

PhD Candidate 2023 – today
Medical University of Vienna – Department for Medical Physics and Biomedical Engineering

MSc in “Medical Radiation Physics” 2019 - 2021
National and Kapodistrian University of Athens (NKUA), Athens
Diploma thesis: Assessing the optical properties of human skin using Optical Coherence Tomography.

BSc in “Physics” 2013 - 2019
University of Ioannina (UOI), Ioannina
Thesis: The effect of ultraviolet (UV) radiation on biological systems. From nano- to macro - dimensions.

EXPERIENCE

Self – employed (Ioannina, Greece) 2018 - today
Physics, Mathematics and Chemistry Tutor

Experienced in teaching Physics, Mathematics and Chemistry mainly at secondary and high school students, with a little experience at university students. Teaching them how to organize and study in the proper way.

General University Hospital of Ioannina (Ioannina, Greece) 2021 – 2022
Medical Physics Trainee

- Nuclear Medicine Department: Project: Nurse training in the Oncology unit of Radioisotope treatments. Experienced in quality controls of the department’s equipment (γ camera and SPECT/CT).
- Radiotherapy Department: Experienced in 3D conformal and IMRT/VMAT therapy techniques. Well trained in quality controls of the department’s equipment (linear accelerators (Varian/Elekta) - brachytherapy).
- Radiology Department: Project: Quality controls in radiation protection lead aprons. Advanced trainings in quality controls of X-ray, C-arm, mammograms.

Medical Physics Laboratory, Medical school (Ioannina, Greece) 2021 – 2022
Co-supervisor of an undergraduate student: Thesis: “Studying the optical properties of optical tissue phantoms”. High performance with laboratory equipment and optical tissue phantoms made of PVA.

General University Hospital of Ioannina (Ioannina, Greece) 03 - 05/2019
Undergraduate internship: Project: Statistical analysis of interventional angiologists data (coronary angiography, angioplasty, pacemakers).

PUBLICATIONS

- The effect of different optical clearing agents on the attenuation coefficient and epidermal thickness of healthy skin assessed by optical coherence tomography. ([M.Varaka](#), M.Vardaki, G.Gaitanis, G.Bassukas, N.Kourkoumelis) 2022

CERTIFICATIONS

Greek Ministry of Health: • Medical Physicist license in Ionizing Radiation 2023
• Medical Physicist license in Non-Ionizing Radiation 2022

SCIENTIFIC CONFERENCES

Hellenic Association of Medical Physicists 2022
1st Hellenic Medical Physics Congress **E-poster**: “In vivo and in silico studies of propylene glycol as a superficial skin optical clearing agent”.
EFRS webinar 2022
Stereotactic RadioSurgery (SRS) and Stereotactic Body Radiation Therapy (SBRT).
EFOMP – COCIR webinar 2021
IEC standards for diagnostic imaging equipment.
EFIE workshop 2021
PET-CT Molecular Imaging: physics, advances & clinical applications.
Medical Physics Unit of the 2nd Radiology Laboratory, School of Medicine, National and Kapodistrian university of Athens (NKUA)
Dosimetry and quality control of Radiotherapy applications. 2020
SPIE Webinar Series 2020
Journal in Biomedical Optics

ADDITIONAL

IT Skills: Programs: Microsoft Word, Excel, PowerPoint, Origin, SPSS, Python, Matlab **Image analysis:** ImageJ (FIJI)
Language Fluency: English (Full Professional C2), Greek (Native), German (attending courses)