

Eleftherios P. Pappas, Ph.D.

Medical Physicist

Medical Physics Laboratory, Medical School, National and Kapodistrian University of Athens

Short Curriculum Vitae

Education and Professional training

- 2022: **Radiation Protection Expert**
Recognition by the Greek Atomic Energy Commission
- 2022: **Medical Physics Expert**
Recognition by the Greek Atomic Energy Commission
- 2020 – 2022: **Post-Doctoral research**
Medical Physics Laboratory, Medical School, National and Kapodistrian University of Athens
- 2013 – 2018: **PhD studies**
Medical Physics Laboratory, Medical School, National and Kapodistrian University of Athens
- 2014: **Licensed Medical Physicist**
License to practice Medical Physics in applications involving ionizing and non-ionizing radiation
- 2010 – 2012: **MSc in Medical Physics**
Interuniversity-Interdepartmental Master Program in Medical Physics
Grade: 9.48
- 2005 – 2010: **Physics Degree**
Department of Physics, National and Kapodistrian University of Athens
Direction: Nuclear and Particle Physics
Grade: 7.41

Employment - Experience

- 06/2019 – present: Medical Physicist, Radiotherapy and Radiosurgery Department, “Iatropolis” private Clinic, Greece
- 03/2019 – 05/2019: Medical Physicist, RTsafe P.C., Athens, Greece
- 11/2015 – 03/2019: Medical Physicist, RTsafe P.C., Athens, Greece

- 01/2013 – present: Research associate, Medical Physics Laboratory, Medical School, National and Kapodistrian University of Athens
- 09/2012 – 08/2013: Internship in Medical Physics, “Evangelismos” and “Aretaieio” Hospitals

Participation in funded research projects in the field of Medical Physics – Radiation Physics

- “Assessment of spatial uncertainties in target determination related to Magnetic Resonance Imaging and their impact on stereotactic radiotherapy treatment planning in multiple brain metastases cases”. Source: National Strategic Reference Framework (NSRF) 2014-2020 Operational Programme “Human Resources Development, Education and Life-long Learning”. Start: 4/2020. End: 6/2021
- “Independent verification of the dose calculation algorithms implemented in the GammaPlan Treatment Planning System”. Source: ELEKTA Instrument AB, Sweden. Start: 2018. End: 2019
- “Development of advanced quality assurance and optimization tools for stereotactic radiosurgery-radiotherapy applications”. Source: State Scholarships Foundation (IKY) of Greece through the program “Research Projects for Excellence IKY/SIEMENS”. Start: 09/2015. End: 09/2017.
- “Development of phantoms and methods for the assessment and correction of geometric distortion in MRI images used for radiotherapy applications”, Source: Intramural Research Fund, King Fahad Medical City. Start: 10/2015. End: 10/2016.
- “Prospective evaluation and end-user oriented tools to guide the brachytherapy community through a smooth transition to model based, individualized treatment planning dosimetry”. Source: Research Funding Program: Aristeia, co-financed by the European Social Fund–ESF and Greek national funds through an Operational Program of the National Strategic Reference Framework-NSRF. Start: 09/2012. End: 09/2015
- «Ανάπτυξη μεθόδων τρισδιάστατης δοσιμετρίας σε σύγχρονες εφαρμογές ιοντιζουσών ακτινοβολιών στην Ιατρική», Source: Greek National Central Council of Health. Start: 2010. End: 2012

Published work

- 27 published articles in international peer-reviewed journals (update 12/2022)
 - Citations: 291 / 395 (sources: Scopus / Google Scholar, respectively, update 12/2022)
 - h-index: 12 / 14 (sources: Scopus / Google Scholar, respectively, update 12/2022)
 - Scopus Author Identifier: 54680536900
 - ORCID: <https://orcid.org/0000-0003-4030-2241>
- 1 book chapter (Chapter 8: “Morphological Imaging” in “CyberKnife NeuroRadiosurgery: A practical Guide”, Springer 2020, ISBN 978-3-030-50668-1)
- 57 announcements in international conferences (update 12/2022)
- 7 announcements in national conferences (update 12/2022)
- Reviewer in international peer-reviewed journals, indicatively: Medical Physics, Physics in Medicine and Biology, Journal of Applied Clinical Medical Physics, Physica Medica: EJMP, Radiological Physics & Technology

Scholarships

- Scholarship for Post-Doctoral research through the Operational Programme “Human Resources Development, Education and Life-long Learning” of the National Strategic Reference Framework (NSRF) 2014-2020
- Scholarship from the State Scholarships foundation (IKY) of Greece for PhD studies through the programme “Research Projects for Excellence IKY/SIEMENS”

Distinctions – Awards

- “Reviewer of the Year 2021” award in IOP Outstanding Reviewer Awards 2021 for reviewing for the Physics in Medicine and Biology journal (2021)
- “Outstanding Reviewer” award in IOP Outstanding Reviewer Awards 2021 for reviewing for the Physics in Medicine and Biology journal (2021)
- The paper by Prentou et al 2020, “Dosimetric impact of rotational errors on the quality of VMAT-SRS for multiple brain metastases: Comparison between single- and two-isocenter treatment planning techniques”, received the “Top Cited Article 2020-2021” award in the Journal of Applied Clinical Medical Physics (2021)
- Received the “Proukaki” award with honorary prize during MSc studies in Medical Physics – Radiation Physics (2011)

Theses

- *“Development of quality control protocol and software tool for the correction of geometric distortions and signal inhomogeneities in magnetic resonance images”*, Ph.D. thesis, National and Kapodistrian University of Athens, Athens 2018
- *“Assessment and characterization of geometric distortions in Magnetic Resonance Imaging”*, M.Sc. thesis, National and Kapodistrian University of Athens, Athens 2012
- *“Monte Carlo investigation of the feasibility of using polymer gel in proton beam radiation therapy”*, B.Sc. thesis, National and Kapodistrian University of Athens, Athens 2010