CURRICULUM VITAE

Personal data

Name: Pantelis Karaiskos Current position: Professor and Director, Medical Physics Laboratory, Medical School, National and Kapodistrian University of Athens, Greece Date of birth: 09 June 1969 Nationality: Greek Status: Married, two children e-mail: pkaraisk@med.uoa.gr, tel: +302107462368

Education

2002:	Ph.D. in Medical Physics, Medical School, National and Kapodistrian
	University of Athens , Greece
1994:	M.Sc. in Medical Physics, University of Aberdeen, UK
1992:	B.Sc. in Physics, Physics Dept., University of Athens, Greece

Employment

03/2018- present:	Director, Medical Physics Laboratory, Medical School, National and
	Kapodistrian University of Athens
09/2018-present:	Director of the Inter-University postgraduate MSc course in "Medical
	and Radiation Physics", Greece
08/2017- present:	Professor, Medical Physics Laboratory, Medical School, National and
	Kapodistrian University of Athens
09/2011- 08/2017:	Associate Professor, Medical Physics Laboratory, Medical School,
	National and Kapodistrian University of Athens
2006 – present:	Consultant Medical Physicist, Medical Physics, Radiotherapy and Gamma
	Knife Departments, Hygeia Hospital, Athens
2006-2011:	Assistant Professor, Medical Physics Laboratory, Medical School,
	National and Kapodistrian University of Athens
1999-2006:	Medical Physicist, Medical Physics Department, Hygeia Hospital, Athens
1996-2003:	Research fellow: Nuclear & Particle Physics Sec., Physics Dept., National
	and Kapodistrian University of Athens

Teaching responsibilities

- Medical Physics: undergraduate Medical students
- Physics of the human body: undergraduate Medical students
- Radiotherapy: postgraduate Medical Physics students (MSc course in Medical Physics)
- Radiation Protection: IAEA Regional postgraduate courses on radiation protection and the safety of radiation sources (2010, 2014, 2019)
- Computer applications in intensive care units and contemporary surgery techniques: Postgraduate Medical students in the corresponding M.Sc. programs
- Lectures in 30 educational seminars
- Supervisor in 45 MSc thesis in Medical Physics
- Supervisor in 10 PhD thesis in Medical Physics

Professional Service

- Director of the Inter-University (5 Medical Schools from five Greek Universities) postgraduate course in "Medical and Radiation Physics", Greece
- Member of the Board of Directors of the Institute of Accelerating Systems & Applications (IASA), Greece
- Member of various Institutional Committees
- Member of the Educational Committee of the Hellenic Association of Medical Physicists
- Member of the Program or Scientific Committee in 11 Scientific Conferences, Workshops and Meetings
- Referee in 8 international scientific journals
- Reviewer of grant proposals for national and international bodies

Research Interests

- Quality assurance in advanced radiotherapy applications
- Conventional (TLD, diode, film) and contemporary (3D polymer gel-MRI) experimental dosimetry in modern radiation therapy techniques, such us Intensity Modulated Radiation Therapy (IMRT), high dose rate brachytherapy and stereotactic radiotherapyradiosurgery
- Development of phantoms and methods for the assessment and correction of geometric distortion in MRI images used for radiotherapy applications
- Comparison and evaluation of modern radiotherapy techniques using physical and biological parameters

- Monte Carlo modelling of brachytherapy sources for the generation of dosimetry data for use in treatment planning systems and development of analytical dosimetry models guided by Monte Carlo simulation
- Monte Carlo simulations of high energy x-rays and charge particles for radiotherapy purposes

Participation in research projects (2010 – present)

 "Assessment of spatial uncertainties in target determination related to MRI and their impact on stereotactic radiotherapy treatment planning in multiple brain metastases cases" (MIS 5047965)

Budget: 45.000€. Source: Greece and European Union (European Social Fund-ESF) (Coordinator)

• "Independent verification of the dose calculation algorithms implemented in the GammaPlan Treatment Planning System"

Budget: 30.000€. Source: ELEKTA Instrument AB, Sweden. Start-end: 2018 – 2020 (Coordinator)

• "Development of advanced tools for quality assurance and optimization in streotactic radiosurgery-radiotherapy applications"

Budget: 50.000€. Source: State Scholarships Foundation of Greece through the program "Research Projects for Excellence IKY/SIEMENS". Start-end: 2015 – 2017 (Coordinator)

- "Development of phantoms and methods for the assessment and correction of geometric distortion in MRI images used for radiotherapy applications"
 Budget: 50.000€. Source: Intamural Research Fund. King Fahad Medical City Academic & Training Affairs Research & Scientific Publication. Start-end: 2015 2016
- "Prospective evaluation and end-user oriented tools to guide the brachytherapy community through a smooth transition to model based, individualized treatment planning dosimetry"

Budget: 350.000€. 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-end: 2013 – 2016

 "3D Dosimetry in modern radiotherapy applications"
 Budget: 45.000€. Source: "Education and Lifelong Learning" of the National Strategic Reference Framework (NSRF) - Research Funding Program: Heracleitus II. Investing in knowledge society through the European Social Fund. Start-end: 2010 – 2012 (Coordinator)

- "Development of dosimetric methods in modern radiation medical applications"
 Budget: 9.000€. Source: Greek National Central Council of Health. Start-end: 2010 2012 (Coordinator)
- "Research proposal for the independent validation of Acuros based dosimetry calculations in brachytherapy".
 Budget: 67.850€. Source: Varian Medical Systems SA. (funding was managed by the Special Account of Research Grants of the University of Athens). Start-end: 2008-2011.
- Dosimetry in medical applications"
 Budget: ~9.000€. Source: Special Research Account of the University of Athens (ELKE 70/4/4285, 70/4/3312, 70/4/3320). Start-end: 2006- 2012) (Coordinator)
- "Development and application of research dosimetry techniques to the quality assurance of radiation therapy in the clinical setting".
 Budget: 184.177€. Source: The Research Promotion Foundation's Framework Programme for Research, Technological Development and Innovation Desmi 2008, co-funded by the Republic of Cyprus and the European Regional Development Fund. Startend: 2008-2010 (Coordinator for Greece)

Reviewer

- Medical Physics (also Associate Editor), Physics in Medicine & Biology, Radiotherapy and Oncology, Journal of Applied Clinical Medical Physics, European Journal of Medical Physics (also member of the Editorial Board)
- Abstract reviewer for ESTRO conferences

Published work

- 101 publications in Peer Reviewed International Journals,
 h-index :29, citations:1950 (Source: Scopus Citation Overview, February 2021)
 h-index: 34, citations:2821(Source: Google Scholar, February 2021)
- 120 abstracts/presentations in international conferences
- 43 invited talks in national and international conferences-meetings