

PETROKOKKINOS LOUKAS

Physicist, MSc – Medical physics

NUCLEAR & PARTICLE PHYSICS SECTION
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PERSONAL DATA

Date of Birth: October 20th 1975

Home Address: Kapetan Lahana 79, Kato Patissia, 10445, Athens, Greece

Home telephone: +30 210 8324581

EDUCATION

October – December 2004 Technical University of Lodz Poland

Marie Curie Fellow

Training in synthesis and characterization of polymeric hydrogels and studying of radiation induced polymerization and physical-chemical properties of polymer gel dosimeters' typical compositions

June 2004 – present University of Athens (UoA) Greece

PhD Candidate

Medical Physics PhD student at the Physics Department. Subject: "Three dimensional polymer gel dosimetry with Magnetic Resonance Imaging in contemporary radiotherapy techniques"

May 2004 Medical School, UoA Greece

MSc in Medical Physics

Graduated by the Medical Physics – Radiation Physics MSc course jointly held by the Universities of Athens, Thessalonica, Ioannina, Thrace, Crete, the Greek Atomic Energy Commission and the National Center of Scientific Research "Demokritos" (Grade 9.22/10)

September 2003 Medical School, UoA Greece

Scholarship granted

Granted a scholarship by the State Scholarships Foundation (I.K.Y.) for the best grade at the second year of studies at the Medical Physics MSc course (Grade: 10/10)

September 2002 – April 2003 Evangelismos General Hospital Greece

Medical Physics Clinical practice

Clinical Practice in the Nuclear Medicine and Radiology departments

May 2003 – August 2003	Aretaieion Hospital, Medical School, UoA	Greece
<i>Medical Physics Clinical practice</i>		
Clinical Practice in the Radiotherapy department		
September 2002	Medical School, UoA	Greece
<i>Scholarship granted</i>		
Granted a scholarship by the Medical Scholl MSc course for the grades during the first year of studies (8.05/10)		
September 2001	Physics Department, UoA	Greece
<i>Physics degree</i>		
Graduated by the Physics Department of the University of Athens (Grade: 6.6/10)		

PROFESSIONAL EXPERIENCE

November 2003 – present	Mitera General Hospital, Athens
Employed at the Bone Density Measurement – Osteoporosis Department	
September 2002 – August 2003	Evangelismos General Hospital, Athens
Medical Physics trainee in the Nuclear Medicine and Radiology departments	
September 2002 – August 2003	Aretaieion General Hospital, Athens
Medical Physics trainee in the Radiotherapy department	
1996 – 2006	
Tutoring students of Greek Public schools and University	

PUBLICATIONS IN INTERNATIONAL JOURNALS AND BOOKS OF PROCEEDINGS

L. Petrokokkinos, M. Kozicki, P. Baras, P. Papagiannis, A. Angelopoulos, Krzysztof Rybka, J. Fijuth and T. Bieganski “Implementing polymer gel dosimetry in clinics with basic MRI installations”, *Biomedizinische Technik/Biomedical Engineering* **50**, Supplementary vol. I, Part 2 (2005), 1062-3

L. Petrokokkinos, I. Striligas, E. Pappas, P. Baras, P. Sandilos, M. Kozicki, J.M. Rosiak and A. Angelopoulos “Polymer Gel – MRI for the quantification of volume averaging dose underestimation in Gamma knife small field dosimetry”, *Biomedizinische Technik/Biomedical Engineering* **50**, Supplementary vol. I, Part 1 (2005) , 743-4

E. Pappas, T. Maris, L. Petrokokkinos, M. Kozicki, I. Striligas, A. Angelopoulos and L Sakelliou “Experimental determination of the PTW PinPoint ion chamber size effect using polymer gel dosimetry”, *Biomedizinische Technik/Biomedical Engineering* **50**, Supplementary vol. I, Part 2 (2005), 1081-2

M. Kozicki, L. Petrokokkinos, P. Papagiannis, L. Sakelliou, A. Angelopoulos, E. Pappas, J.M. Rosiak “Study of VIPAR gel dosimeter dose range improvement”, *Biomedizinische Technik/Biomedical Engineering* **50**, Supplementary vol. I, Part 2 (2005) , 1368-9

E. Pappas, L. Petrokokkinos, A. Angelopoulos, T. G. Maris, M. Kozicki, I. Dalezios and V.

Kouloulias “Relative Output Factor measurements of a 5 mm diameter radiosurgical photon Beam using polymer gel dosimetry” Med Phys **32** (2005), 1513-20

M. Kozicki, T. Biegański, K. Rybka, P. Pappagiannis, L. Sakelliou, A. Angelopoulos, L. Petrokokkinos and J. M. Rosiak “Gel dosimetry coupled with MRI technique for radiotherapy dosimetry”, proceedings of the 5th Symposium of the Polish Medical Magnetic Resonance Society, Szczyrk, Poland, June 2005

P. Karaiskos, L. Petrokokkinos, E. Tatsis, A. Angelopoulos, P. Baras, M. Kozicki, P. Papagiannis, J. M. Rosiak, L. Sakelliou, P. Sandilos and L. Vlachos “Dose verification of single shot gamma knife applications using VIPAR polymer gel and MRI” Phys. Med. Biol. **50** (2005), 1235-49

G. Lymperopoulou, E. Pantelis, G. Anagnostopoulos, L. Petrokokkinos, E. Sakelliou and P. Karaiskos “A simple analytical dosimetry model for ¹⁹²Ir, ¹³⁷Cs and ⁶⁰Co as a step towards incorporating inhomogeneities in HDR brachytherapy treatment planning”, proceedings of the 14th International Conference on the use of Computers in Radiation Therapy, May 2004

FOREIGN LANGUAGES AND COMPUTER SKILLS

Fluent in English (Certificate of Proficiency)

Very good in French (Certificat de la langue Francaise)

Computer programming (Fortran, Pascal, C etc.), analysis and processing of scientific data using several tools (Matlab, Origin, Excel etc), medical image processing, scientific software development, system administration (Linux/Unix, MsDos/Windows)