

DIMITRIS EMFIETZOGLOU

Medical Physics Laboratory

School of Health Sciences, Department of Medicine

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PERSONAL

Date and Place of Birth: 1-10-1968, Athens

Citizenship: Greek

Family status: Married (one child)

Military service: 1997-1998 (compulsory)

EDUCATION

BSc	Physics	University of Athens	1986-1991
MSc	Radiation Science	Georgetown University, Washington DC, USA	1991-1993
PhD	Radiation Biophysics	Georgetown University, Washington DC, USA	1993-1996
Postdoc	Radiation Medicine	Georgetown University, Washington DC, USA	1999 (12m)

ACADEMIC POSITIONS

2020	Professor	Medical Physics Laboratory, Dept. of Medicine, University of Ioannina
2014	Associate Professor	Medical Physics Laboratory, Dept. of Medicine, University of Ioannina
2009	Assistant Professor (tenured)	Medical Physics Laboratory, Dept. of Medicine, University of Ioannina
2005	Assistant Professor	Medical Physics Laboratory, Dept. of Medicine, University of Ioannina
2000	Lecturer	Medical Physics Laboratory, Dept. of Medicine, University of Ioannina

UNIVERSITY SERVICE

2020-	Director, Division of Morphological & Clinical-Laboratory Sciences, Dept. of Medicine
2019-	Director, Medical Physics Laboratory, Dept. of Medicine
2019-	Steering Committee Member, MSc program in Medical Radiation Physics
2010-	Member of Faculty Assembly, Dept. of Medicine
2010-	Committee Member, Physics Entrance Exam. (transfer applicants), Dept. of Medicine
2010-11	Medical School Representative, University Library Committee

PROFESSIONAL ACTIVITIES

- Committee Member, **International Commission on Radiation Units and Measurements (ICRU)** Report No. 90 "Key Data for Ionizing Radiation Dosimetry: Measurement Standards and Applications", Oxford University Press (2016)
- Committee Member, **International Commission on Radiation Units and Measurements (ICRU)** Report No. 96 "Dosimetry-Guided Radiopharmaceutical Therapy", Oxford University Press (in press)

- Scientific Committee MICROS 2017: 17th International Symposium on Microdosimetry, November 5-10, 2017, Venice, Italy
- Scientific Advisory Committee 4th GEANT4 Monte Carlo Workshop for Radiotherapy, Imaging, and Radiation Protection December 2-8, 2019, Wollongong, Australia

THESES SUPERVISOR

- Main supervisor
2 PhD (Medical Physics Lab, Dept. of Medicine, Univ. of Ioannina)
1 PhD (Dept. of Applied Mathematics, Brown Univ., USA)
5 MSc (Medical Physics Lab, Dept. of Medicine, Univ. of Ioannina)
19 BSc (Dept. of Physics, Univ. of Ioannina)
- External Examiner
6 PhD (Univ. of South Australia, Australia; Univ. of Trento, Italy; Univ. of Adelaide, Australia; Univ. of Alicante, Spain; Ben-Gurion Univ., Israel; Univ. of British Columbia, Canada)

TEACHING

Undergraduate

- Radiation interactions, Radiation Biology, Radiation Protection, Physical principles of Diagnostic Radiology, Radiation Therapy, and Nuclear Medicine

Postgraduate

- Radiation dosimetry, Microdosimetry, Monte Carlo radiation transport simulations

RESEARCH INTERESTS

- Interaction of charged particles with condensed media and nanostructures
- Monte Carlo track-structure and condensed-history simulations
- Dosimetry of targeted radionuclide therapy w/ β - and Auger-emitters
- Dosimetry of ion-beam radiotherapy (Bragg peak)
- Radiation biophysics (DNA damage, cell survival)
- Microdosimetry (radiation quality)
- Extension and application of the GEANT4-DNA code to Medical Physics

GRANTS (Total Funding to UoI >800k EUR)

2001-2002	University of Ioannina Research Committee (PI)
2002-2005	Industrial Sponsorship (PI)
2005-2007	Center for Drug Delivery Research, London, UK (co-PI)
2008-2009	University of Ioannina Research Committee (PI)
2008-2010	European Commission (FP7-HEALTH) (co-PI)
2011-2014	Ministry of Science and Innovation of Spain (ext-PI)
2012-2015	European Commission (FP7-PEOPLE-ITN) (co-PI)
2015-2018	Ministry of Economy and Competitiveness of Spain (ext-PI)
2016-2018	France-Greece Project International de Cooperation Scientific (PICS) (co-PI)
2017-2019	Australian Research Council (ext-PI)
2018-2021	European Space Agent (ESA) (co-PI)
2019-2021	France-Greece Project International de Cooperation Scientific (PICS) (co-PI)
2019-2021	EU-Greece (ESPA) (PI)
2021-2023	European Space Agent (ESA) (co-PI)

EDITORIAL BOARD MEMBER

2019- Biomedical Physics & Engineering Express (IoP)

2020- International Journal of Molecular Sciences (MDPI)

PUBLICATIONS

- 128 papers in peer-review journals
- 3400+ citations (SCOPUS)
- 4500+ citations (GoogleScholar)
- h-index 33 (SCOPUS)
- h-index 39 (GoogleScholar)
- Book: "Interaction of Radiation with Matter" by H. Nikjoo, S. Uehara and D. Emfietzoglou, CRC Press 2012, 364 pages (ISBN 9781439853573)

