

Georgia Prentou, M.Sc.

Current Position

Ph.D. Candidate, Medical Physics Laboratory, Medical School, National and Kapodistrian University of Athens, financially supported by the Hellenic Foundation of Research and Innovation (ELIDEK).

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Education

2017: Professional license to practice Medical Physics

2016: M.Sc. in Medical Physics, Interuniversity-Interdepartmental Master Program in Medical Physics (Grade: 8.60)

2014: B.Sc. in Physics, Nuclear and Particle Physics Section, Physics Department, National and Kapodistrian University of Athens (Grade: 7.04)

Participation in courses

2016: ESTRO School, Physics for modern radiotherapy, Athens, Greece, 11-15 September

Foreign Languages

- English
 - First Certificate in English University of Cambridge
 - Certificate of Proficiency in English University of Michigan
- French (Delf 1, Delf 2)

Specific Skills

- Monte Carlo Simulation softwares:
 - GEANT4 (Application for Tomographic Emission), DETECT2000
- Open source software: 3D Slicer
- Medical Image Processing (DICOM)
- Treatment Planning Systems : Eclipse Varian, Oncentra Elekta, Monaco Elekta
- Modern Radiotherapy Techniques : 3D-CRT, IMRT, VMAT

Employment

2016-2017: Medical Physics Intern, "Agios Savvas" General Anticancer Hospital, Athens, Greece

Theses

- “Assessment of uncertainties and their impact on dose distributions of modern radiotherapy techniques”, Ph.D. Thesis, Medical Physics Laboratory, Medical School, National and Kapodistrian University of Athens, 2016 –
- “Research of geometric uncertainty acceptance limits and quantification of the need of spatial precision in stereotactic radiosurgery applications” M.Sc. Thesis, National and Kapodistrian University of Athens, 2016
- “Comparative study of inorganic scintillators, homogeneous and pixelated, using gamma-camera system”, B.Sc. Thesis, National and Kapodistrian University of Athens 2014.

Announcements in International Conferences

1. P. Karaiskos, G. Prentou, E. Pappas, E. Georgiou, E. Koutsouveli, Christos Skarleas, Michael Torrens, “Influence of the degree of geometric uncertainty on the quality of gamma knife dose delivery”, 18th International Leksell Gamma Knife Society Meeting, book of abstracts electronic presentations, page 207, Amsterdam, May 15 - 19 2016.
2. G. Prentou, E. Pappas, E. Koutsouveli, P. Nomikos, E. Georgiou, P. Karaiskos, “GEOMETRIC, DVH AND PLAN QUALITY DIFFERENCES INDUCED FROM DIFFERENT PATIENT IMAGE REGISTRATION METHODS USED IN GAMMA KNIFE APPLICATIONS”, 1st European Congress of Medical Physics, Athens, Sept 1 – 4 (2016), European Journal of Medical Physics, Volume 32 (Supplement 3), page 324 (2016) http://www.prctravel.gr/ecmp2016/index_files/PP123.pdf
3. J. Tsalafoutas, A. Salametis, G. Prentou, H. Prentou, V. Tsapaki, “CT Dose Check into evaluation: Correlation of CTDIvol alert values with actual peak skin dose”, E-poster, European Congress of Radiology, Vienna 1-5 March 2017, doi-link: <http://dx.doi.org/10.1594/ecr2017/C-0599>

Scientific Publications

G. Prentou, E. Pappas, E. Koutsouveli, P. Nomikos, E. Georgiou, P. Karaiskos, “GEOMETRIC, DVH AND PLAN QUALITY DIFFERENCES INDUCED FROM DIFFERENT PATIENT IMAGE REGISTRATION METHODS USED IN GAMMA KNIFE APPLICATIONS”, 1st European Congress of Medical Physics, Athens, Sept 1 – 4 (2016), European Journal of Medical Physics, Volume 32 (Supplement 3), page 324 (2016) [http://www.physicamedica.com/article/S1120-1797\(16\)30351-9/pdf](http://www.physicamedica.com/article/S1120-1797(16)30351-9/pdf)