PERSONAL INFORMATION

Maria Leiloglou

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https://marialeiloglou.github.io

EDUCATION AND TRAINING

02/04/2018–Present

PhD, Clinical Medicine Research

EQF level 8

Imperial College London, London (United Kingdom) the Hamlyn Centre for Robotic Surgery, Faculty of Medicine, Department of Surgery and Cancer

My research covers the development (both hardware and software) and the *in vivo* testing of surgical optical equipment, including the image analysis. The focus is on the application of Fluorescence Imaging and Hyperspectral imaging as an intraoperative tumour resection guidance tool in Breast-Conserving Surgery.

01/10/2016–30/09/2017

MSc Biomedical Engineering, classification: distinction

EQF level 7

Imperial College London South Kensington, London, SW7 2AZ (United Kingdom) www.imperial.ac.uk

▪ Stream: Medical Physics and Imaging
▪ MSc dissertation (77.6/100), Hamlyn Centre for Robotic Surgery, Imperial College London. Title:' Development and assessment of a NIR Fluorescence/ RGB coupling optical system for breast cancer detection'. Details:
-Design of a user interface in LabVIEW software to control the successive alternation of white/near infrared output of a customized LED source.
-Synchronization of this output with the corresponding configuration of system's camera.
-Interrogation of the sensitivity (SNR) and frame rate of this system to be potentially translated to clinical applications.

27/09/2011–24/07/2015

Bachelor's degree in Physics, Grade:8.77/10

EQF level 6

Aristotle University of Thessaloniki, Faculty of Sciences, School of Physics, Thessaloniki (Greece)

▪ Specialization field: Nuclear and Elementary Particle Physics
▪ Dissertation (grade:10/10), Theageneio General Hospital. Title: 'Dosimetric optimization of the radiation treatment planning for prostate cancer.' Details:
-Planning of 6 different dosimetric plans for 70 Gy dose escalated prostate treatment for 20 patients in the platform of Eclipse™ treatment planning system.
- Evaluation of these dosimetric plans with the help of SPSS IBM Statistics programme.

WORK EXPERIENCE

01/10/2017–Present

University teaching assistant

Imperial College London, London (United Kingdom)

courses:

- Medical Imaging/ MRes in Medical Robotics and Image Guided Intervention/ the Hamlyn Centre for Robotic Surgery
- Surgical Technology/Physical Principles & Clinical Translation of Fluorescence Imaging / BSc in Surgery/ Department of Surgery and Cancer
- Principles of Biomedical Imaging/MSc in Biomedical Engineering/ Department of Bioengineering
- Advanced Medical Imaging/ MSc in Biomedical Engineering/ Department of Bioengineering
- Non-Ionising Functional and Tissue Imaging/ MSc in Biomedical Engineering/ Department of Bioengineering

23/10/2017–31/03/2018

Research Assistant, Hamlyn Centre for Robotic Surgery

Imperial College London, Faculty of Medicine, department of Surgery and Cancer Bessemer Building, South Kensington Campus, Exhibition Rd, Kensington, SW7 2AZ London (England) www.imperial.ac.uk/hamlyn-centre

03/03/2015–30/04/2015

Internship (Practical Training) in Radiotherapy department

Theagenio General Hospital 2 Alexandrou Symeonidi, Thessaloniki, 54352, Thessaloniki (Greece) www.theageneio.gov

- Use of EclipseTM treatment planning software
- Assistance to Medical Physisists in radiation treatment planning (for prostate cancer)
- Familiarization with the procedures of radiotherapy, medical imaging (C.T., γ-camera) and nuclear medicine

ADDITIONAL INFORMATION

Honours and awards

- 02/04/2018-02/04/2021 Ph.D. scholarship

Imperial Biomedical Research Centre, Imperial College London, Department of Surgery and Cancer/ NIHR ,https://imperialbrc.nihr.ac.uk/

- 01/10/2016-01/10/2017 Research Funding
- 01/10/2018-01/10/2019 Research Funding
- 01/10/2019-01/10/2020 Research Funding

FOUNDATION FOR EDUCATION AND EUROPEAN CULTURE
LISIKRATOUS 12 ,Athens 10558,http://www.ipep-gr.org/:

Presentations

- 20th to 23rd April 2020: OSA BioPhotonics Congress, Biomedical Optics, Fort Lauderdale, Florida, USA
- 26th June 2019: Hamlyn Symposium workshop on advanced Biophotoics from Bench to Bedside, the Hamlyn Centre, Imperial College London, UK
- 19th to 22nd March 2019: 14th European Molecular Imaging Meeting, Glasgow, UK
- 6th March 2019: Image Guided Therapies Network+ Tri-Annual Meeting , St Thomas' hospital, London, UK
- 17th to 20th October 2018: 2018 BMES Annual Meeting, Georgia World Congress Centre , Atlanta, USA
- 28th June 2018: EPSRC IGT Network, Kings College London (Session One: Early Career Researcher Workshop: Minimally Invasive Diagnostics and Treatments)

Publications

A light-weight near infrared fluorescence endoscope based on a single color camera: A proof-of-concept study

Published in *Lasers and Electro-Optics Pacific Rim (CLEO-PR), 2017 Conference* , 2017