

CURRICULUM VITAE

PERSONAL INFORMATION

SURNAME: SPYRATOU

NAME: ELLAS

DATE OF BIRTH 16.10.1980

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EDUCATION

- 10.2005 - 12.2010** School of Applied Mathematical and Physical Sciences, Physics Department, National Technical University of Athens (NTUA), Greece, Thesis title: “Biophysical applications of lasers and development of the methodology for nanoparticles manipulation with optical tweezers”, PhD
- 9.2004 - 6.2006** NTUA and NCSR Dimokritos, “Nanosystems and Nanodevices”, Thesis title: “Experimental and theoretical study of the laser interaction with biocompatible polymers-intraocular lenses”, M.Sc
- 10.1999 - 11.2004** School of Applied Mathematical and Physical Sciences, NTUA, Greece, Tracks: Optoelectronic & Laser and advanced technological materials, Thesis title: Photo-thermal laser interaction with hard and soft tissues., First Degree Diploma

RESEARCH/WORKING EXPERIENCE .

- 03.2016-today** **Postdoctoral researcher**
Research program: “Research Unit of Radiology and medical imaging”./ Applications of advanced methods for the analysis of micro- and nano-structures using the magnetic resonance imaging. 2nd Department of Radiology, Medical School NKUA, Greece
- 04-12.2015** **Postdoctoral researcher**
Research project “Advanced materials and structures for energy collection and conservation” (KRIPIS). / Participate in development and characterization of nanostructures and nanodevices. Institute of Nanoscience and Nanotechnology, National Center for Scientific Research “Demokritos”, Greece
- 11.2014-04.2015** **Postdoctoral researcher**
«FOODSNIFFER – FOOD Safety at the point-of-Need via monolithic spectroscopic chip identifying harmful substances in fresh produce» (E-1725)./ Participate in the development and characterization of photonic sensors, Institute of Nanoscience and Nanotechnology, National Center for Scientific Research “Demokritos”, Greece.

PUBLICATIONS

- **2008-2019** 17 PUBLICATIONS IN INTERNATIONAL SCIENTIFIC JOURNALS
- **2006-2019** 10 PUBLICATIONS IN INTERNATIONAL SCIENTIFIC CONFERENCE PROCEEDINGS
- **2008-2019** 25 POSTERS/ ORAL PRESENTATION IN INTERNATIONAL SCIENTIFIC CONFERENCE WITHOUT PROCEEDINGS.

FELLOWSHIPS and AWARDS

- 2006-2009** Fellowship for PhD studies in NTUA
- 2005-2006** Prize award for the high mark in MSc diploma studied in N.T.U.A. and N.C.S.R-Demokritos/Greece

MEMBERSHIPS & REVIEWING ACTIVITIES

- 2017 - 2019** Membership of the Hellenic Society of Nanotechnology in Health Science. (<http://hsnanohs.eu/>)

TEACHING ACTIVITIES

2018-2019: Teaching staff in M.S.c program “Nanomedicine” of Medical School and School of Pharmacy, NKUA, Greece

2018-2019 Participate in the training of the e-learning Educational Programs of National and Kapodistrian University of Athens in the Category Nanotechnology/Nanomedicine: “Basic principles of Nanotechnology in Health Sciences” and “Nanomedicine: Applications in Diagnostics and Surgery”, NKUA, Greece

2017-2018: Teaching staff “Lasers in dentistry”, School of Dentistry, NKUA, Greece

2012 –2014 Laboratory- Teaching staff, in Laboratory “Optoelectronic and Optical Communications” and “Electrical Circuits”, School of Pedagogical and Technological Education of Athens- Department of engineering electronic education.

2005 –2011 Laboratory- Teaching staff for the laboratory courses: Physics I (Mechanics), Physics II (Electromagnetism and Optics) and Physics III (waves), National Technical University School of Athens, Physics Department, Greece

RESEARCH GRANTS

Project Title	Funding source	Period	Role of the PI
Personalized dosimetry for pediatric patients subjected to interventional cardiological procedures.	Supporting Postdoctoral Researchers, GSRT, Operational program “Education and Lifelong Learning”	15.03.2018 - 14.07.2019	Postdoctoral researcher/ Measuring of biomechanical properties of lymphocytes/ DNA damage characterization/ statistical analysis of all data
Study the effect of ionizing radiation on biomechanical properties of red blood cells by using advanced microscopic techniques.	IKY fellowships of excellence for postgraduate studies in Greece- Siemens	2016-2017	Postdoctoral researcher/ Responsible for conducting the entire phase program (Experimental results, management of time-sheets, budget planning etc)

Interfaces and mesophases in organic/inorganic nanocomposite polymers	Aristeia I: Inter-Poly-Nano, GSRT, Operational Program “Education and Lifelong Learning”	2012-2013	Postdoctoral researcher/ Characterization of nanocomposite polymers using AFM.
Characterization of the mechanical properties of cells and nanobiostructures by using optical tweezers and Atomic Force Microscopy	Grants for basic research 2010-PEVE” (2010-2012), NTUA	2010-2012	Basic Researcher/ Responsible for conducting all the experiment and analysis of the program
Study of the laser radiation physical parameters for nanoparticles excitation/or ablation using optical tweezers	Grants for basic research 2007-PEVE”, NTUA	2007-2009	PhD candidate
Generation, guiding and interaction of laser irradiation with living matter	Grants for basic research 2005 - LEFKIPOS”, NKUA	2005-2007	PhD candidate
New developments in laser diagnosis and Photodynamic at cellular level by using liposomes and nanoparticles as autologous and heterologous drug-carriers.	Greek-Romanian Cooperation, funded by GSRT	2006-2008	PhD candidate