

SOULI MARIA

CURRICULUM VITAE

Athens, April 2017

PERSONAL INFORMATION

Surname, Given Name: **Souli, Maria**
Date of Birth: 12 June 1985
Place of Birth: Athens, Greece

CONTACT INFORMATION



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National Technical University of Athens, Physics Department,
Iroon Polytechniou 9, Zografou Campus, Athens, 15780, Greece



[Souli Maria](#)

EDUCATION

- 11/2016-present** **PhD student** in Biophysics and DNA damage and repair laboratory, Physics Department, School of Applied Mathematical and Physical Sciences, National Technical University of Athens (Greece)
Under Prof. Dr Alexandros Georgakilas
- 12/2013-6/2016** **Master** in *Microsystems and Nanodevices*,
Interdepartmental Program of Postgraduate Studies,
National Technical University of Athens and
Institute of Nanoscience and Nanotechnology (INN) of NCSR "Demokritos".
- Master Thesis:***
Dielectric study of biological mammalian tissues.
Detection of DNA damage induced by oxidative stress and radiation on rat and human tissues by means of dielectric response.
Under Prof. Dr Alexandros Georgakilas, DNA Damage Laboratory
- 10/2003-10/2013** **Diploma** in *Applied Mathematical and Physical Science* with specialization in Optoelectronics and Lasers and Advanced Technological Materials,
National Technical University of Athens.
- Diploma Thesis:***
Study of Molecular Dynamics of Thermoresponsive Copolymers of Styrene and Acrylate Polymers in Aqueous Solutions.
Under Prof. Dr Apostolos Kyritsis, Dielectrics Research Group

FURTHER EDUCATION

- 2017** (9-27 January) CONCERT training course on “Radiation Epidemiology and Dosimetry- How to Quantify Radiation Risk”,
Jointly organized by the Helmholtz Zentrum Munchen, the Technical University of Munich and the University of Salzburg.
- 2015** (13-24 April) DOREMI short course entitled:
CELOD: cellular effects of low doses and low dose-rates with focus on DNA damage and stress response, Stockholm University, Sweden
(The course corresponds to 3 ECTS points)

LABORATORY SKILLS

- Dielectric Relaxation Spectroscopy (DRS)
- for DNA damage measurements
 - for the study of molecular dynamics of copolymers
- Immunohistochemistry, Gel Electrophoresis,
Differential Scanning Calorimetry (DSC)

PUBLICATION

M. P. Souli, P. Klonos, A.F. Fragopoulou, I.V. Mavragani, I.S. Pateras, N. Kostomitsopoulos, L.H. Margaritis, P. Zoumpoulis, L. Kaklamanis, D. Kletsas, V.G. Gorgoulis, A. Kyritsis, P. Pissis, A.G. Georgakilas. *Applying broadband dielectric spectroscopy (BDS) for the biophysical characterization of mammalian tissues under a variety of cellular stresses. **International Journal of Molecular Sciences**, 18, 2017, 838.*

POSTER PRESENTATIONS

- 26-30/9/2016** GERMAN-GREEK Workshop 2016 “Nano-structured soft materials: from polymer self-assembly to stimuli responsive materials”, German Academic Exchange Service (DAAD), National Technical University of Athens, Greece
- Poster titled: *Applying Broadband Dielectric Relaxation Spectroscopy (DRS) for the biophysical analysis of mammalian tissues under a variety of environmental stresses*,
Maria P. Souli, Panagiotis Klonos, Adamantia F. Fragopoulou, Ioannis S. Pateras, Lukas H. Margaritis, Pavlos Zoumpoulis, Dimitris Kletsas, Vassilis G. Gorgoulis, Apostolos Kyritsis, Polycarpos Pissis and Alexandros G. Georgakilas
- Poster titled: Thermo-responsive behavior of PNIPAM- and PMDEGA-based copolymers: comparative investigation,
Aravopoulou Dionysia, **Souli Maria**, Kyriakos Konstantinos, Miasnikova Anna, Laschewsky Andre, Papadakis Christine M. and Kyritsis Apostolos.

- 6-8/10/2015** EUROSON 2015, annual meeting of the European Federation of Societies for Ultrasound in Medicine and Biology (EFSUMB) and the Hellenic Society for Ultrasound in Medicine and Biology (HSUMB), 6-8 October 2015, Athens, Greece

e-poster titled: *Applying broadband Dielectric Relaxation Spectroscopy (DRS) for the detection of prostate cancer biophysical characteristics*,
Maria Souli, Panagiotis Klonos, Apostolos Kyritsis, Polycarpos Pissis, Pavlos S. Zoumpoulis, I. Theotokas, P. Filis , Stavros Tyritzis, Loukas Kaklamanis and Alexandros Georgakilas.

24/9/2013 29th Panhellenic Conference on Solid-State Physics and Materials Science, 22-25 September 2013, Athens ,Greece

Poster titled: *Neutron Scattering, Dielectric and Thermal Studies on Thermoresponsive Polymers of Complex Architecture*,
Aravopoulou Dionysia, **Souli Maria**, Kyriakos Konstantinos, Miasnikova Anna, Adelsberger Joseph, Meier-Koll Andreas, Bivigou-Koumba Achille M., Laschewsky Andre, Papadakis Christine M. and Kyritsis Apostolos.

ATTENDED SEMINARS/MEETINGS

- 26-30/9/2016 GERMAN-GREEK Workshop 2016
"Nano-structured soft materials: from polymer self-assembly to stimuli responsive materials", German Academic Exchange Service (DAAD), National Technical University of Athens, Greece
- 6-8/10/2015 EUROSOM 2015, annual meeting of the European Federation of Societies for Ultrasound in Medicine and Biology (EFSUMB) and the Hellenic Society for Ultrasound in Medicine and Biology (HSUMB), 6-8 October 2015, Athens, Greece
- 2015 (19 June) Scientific meeting Thales- MIS379380, *Synthesis and Study of Biological, Bioengineering, Micromechanical Properties of New Type of Nanostructured bone cements based on calcium phosphate and Geopolymers*, National Hellenic Research Foundation, Athens
- 2015 (16-17 June) Workshop *POLYMER NANOCOMPOSITES: Synthesis, Properties, Modeling, Applications*, Dielectrics Research Group, National Technical University of Athens, Athens, Greece
- 2015 (11-13 May) COST action CM1201, 3rd Annual Scientific Meeting, Biomimetic Radical Chemistry
- 2015 (6 April) Scientific meeting: New materials for applications in biomedicine, Dielectrics Research Group, National Technical University of Athens, Athens, Greece

SCHOLARSHIPS-AWARDS

- January 2017 CONCERT-European Joint Programme for the Integration of Radiation Protection Research - Travel grant
- November 2003 "Spyros Deligiannis" scholarship by EKO Group of Companies

TEACHING EXPERIENCE - EMPLOYMENT

- 2012-present: Teaching experience as private tutor (mathematics and physics in all levels of secondary education)
- 1/9/2015-31/8/2016: Science teacher at Nea Genia Ziridis bilingual school-Cambridge International School.
Teaching Physics, Chemistry and Biology in stages 2-8 (primary and secondary education)
- 9/ 2012-6/2013: Volunteer tutor for students in secondary education, Free services for financially weak people project by Church of "Agios Tryphon"
- 12/11/2007-15/01/2008: Internship at "Andreas Syggros" Hospital of Cutaneous & Venereal Diseases, Athens
Photodynamic Therapy in Dermatology
Supervisors:
K.Anagnostopoulos -Associate Professor, Section of Physics, National Technical University of Athens
C.Antoniou -Professor of Dermatology, Faculty of Medicine, National and Kapodistrian University of Athens
- 2004-2006: Teaching experience as private tutor (mathematics and physics in all levels of secondary education)

COMPUTER SKILLS

Experience with: MICROSOFT OFFICE,
MATLAB, MATHEMATICA, Origin, Grafity, SPSS, PROLITH, PHIETCH
JAVA, HTML

LANGUAGES

Greek mother tongue
English Certificate of Proficiency in English (University of Cambridge) - C2 level