

MARIA DIMAKI – Curriculum Vitae

Name	Maria Dimaki
Nationality	Greek
Date of Birth	01/01/1978
Home Address	Hvidager 5, DK – 2620, Albertslund, Denmark
Maternity leave	15 months (19/07/2007 – 01/03/2008, 04/01/2012 – 14/08/2012)

Education

09/2012	Comsol Multiphysics Intensive Course	Scion DTU, COMSOL A/S
2010	Project Management for Researchers	Technical University of Denmark
2006 - 2007	Education in University teaching at DTU (UDTU)	Technical University of Denmark
2001 – 2004 (04/03/2005)	Ph.D. Dielectrophoretic Assembly of Carbon Nanotube Devices	Department of Micro- and Nanotechnology, Technical University of Denmark
2000 – 2001 (26/09/2001)	Master of Science (M.Sc.) in Engineering and Physical Science in Medicine Motion estimation of the carotid artery wall from B-mode ultrasound images	Department of Biotechnology, Imperial College of London, England
1995 – 2000 (09/2000)	Master of Engineering (M.Eng) A study of the ability of collagen to produce the second harmonic of the optical radiation incident to it for use for the design of a model laser wavelength meter	Department of Electrical & Computer Engineering, National Technical University of Athens, Greece

Working experience

Department of Micro- and Nanotechnology, Technical University of Denmark

2012-2016	Senior researcher Properties of GaAs nanowires, fabrication of Si nanowires, dielectrophoresis, design and simulation of microfluidic systems for virus upconcentration in water
2011 - 2012	Associate professor Applied Micro and Nanotechnology in Electrogenesis. Design, fabrication of Silicon Nanowires, Dielectrophoresis of biological structures
2008-2010	Assistant professor Integrated nanoelectrodes for neuron metabolic studies: Design, fabrication and testing of system. Chromosome Total Analysis System. Dielectrophoresis of biological structures.
2005-2008	Post. Doc. Chromosome Total Analysis System (C-TAS). Design, simulation and fabrication of system. Electron beam lithography.
2005 (Summer)	Teaching assistant Responsible for the preparation and teaching of an experimental course in dielectrophoretic assembly of nanotube devices and use of these for sensing applications (NanoCamp and BEST)
	Research assistant Wafer-scale assembly of carbon nanotube devices. Investigation of the sensing properties of carbon nanotube devices

Awards and funding

- Stipend from Danish Council for Independent Research for a 3 year project on 3D Integrated Nanoelectrodes
- Post. Doc. stipend from Lundbeckfonden for 2 years on the C-TAS project
- DTU stipend for my Ph.D. study
- Stipend from the Greek Bodossakis foundation for pursuing MSc degree at Imperial College
- The Bagrit Center award for graduating with distinction and first in my year at Imperial College, London
- Recipient of a state scholarship (from Greece) for achieving the highest mark in the 2nd year of university studies in my department (NTUA)
- Recipient of award for best performance in all mathematics subjects within the first two years of studies at the department and for best performance in the module “Probability Theory and Statistics” amongst all 4th semester NTUA students
- Recipient of yearly awards from the Bank of Greece and the Sailor’s Fund for exceptional performance at the university (NTUA)

Student supervision

Co-supervisor for 8 Ph.D. students (with main supervisor duties for 2), 13 M.Sc. students and 6 B.Sc. students. Supervisor for 2 research assistants. Main supervisor for numerous 3-week, special course and other short project students.

Project management experience

Coordinator of the “On-chip Cell Electrode μ Interfaces” activity of the Nano Bio Integrated Systems group at DTU Nanotech in 2008-2011, combining students from two EU and one FTP funded projects. Since 2008 involved in the running of the NaBIS group together with Assoc. Prof. Winnie Svendsen. Project leader for a consultancy project with the Sweden based company Sol Voltaics in 2012.

Research Focus Areas

- Dielectrophoresis of virus particles for water monitoring applications
- COMSOL (versions 3.5 to 4.4) simulations of microfluidic systems for upconcentration and mixing applications, simulation of electrical fields
- Cleanroom fabrication of micro- and nanostructures, characterization of these
- Polymer fabrication of microfluidic systems using laser ablation, micromilling
- Properties of nanostructures (mainly electrical)

Publications

Total number of journal publications including peer reviewed conference proceedings: 45 (2 more currently awaiting editorial decisions), H-index: 8 (as calculated by ISI/Scopus), Number of citations: 366 (ISI), 402 (Scopus), Author of 4 book chapters, editor for 1 book, 1 patent

Memberships of scientific committees, review:

Since 2010 and until 2018 I am a member of Censor Body (censornet.dk). In that capacity I have been an opponent for 7 BSc theses, 1 MSc thesis and a nanotechnology course given at SDU in Sønderborg.

I am also a referee for 11 international journals (Journal of Micromechanics and Microengineering, Microelectronic Engineering, Nanotechnology, Lab on a Chip, Separation Science and Technology, Journal of Applied Physics D, Journal of Colloid and Interface Science, Journal of Physics: Conference Series, Electrophoresis, New Journal of Physics, IEEE Sensors) and have reviewed more than 36 papers to date.

International relations

As part of the EU projects CellCheck, EngCabra, Excell and AquaVir I have acted as collaboration partner with several universities abroad in form of supervising visiting PhD students, with common publications as a result. I have also collaborated with Prof. Hywell Morgan from Southampton University.