

## PERSONAL INFORMATION

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**MARIA ELENI (MARILENA) DIMOTSANTOU, Ph.D, MSc**  
*Board Scientific Advisor*  
*Operation Manager, Medicon Hellas SA*  
*Chief Scientific Coordinator, Megalab SA*

**Date of Birth:** 06/02/1987

**Permanent Residence:** Athens, Greece

**Previous Residence:** Los Angeles, USA

**Department(s):** Genomics & Genetics Center, Medicon Hellas SA  
Diagnostics Centers, Megalab SA

**Company Address:** 5-7 Melitona St., 15344 Gerakas, Attiki, Greece

**Office Phone:** +30 210 660 6070-80

## EDUCATION

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09/2013-12/2020: **University of Southern California,**  
Doctor of Philosophy in Biomedical Engineering  
Thesis Advisor: Dr. Scott Fraser

09/2010-06/2012: **California Institute of Technology,**  
Master of Science in Chemical Engineering  
Thesis Advisor: Dr. James Heath

09/2005-05/2010: **University of Patras, Greece**  
Department of Chemical Engineering  
Minor: Material Science and Technology

## PUBLICATIONS

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D. Kim, P. Popescu, M. Harfouche, J. Sendowski, Maria-Eleni Dimotsantou, R. Flagan, A.Yariv, On-chip integrated differential optical microring refractive index sensing platform based on a laminar flow scheme, *Optics Letters*, 40, 4106-4109 (2015)

D. Kim, P. Popescu, M. Harfouche, J. Sendowski, Maria-Eleni Dimotsantou, R. Flagan, A.Yariv, On-chip integrated differential optical microring biosensing platform based on a

dual laminar flow scheme, *Conference on Lasers and Electro-Optics (CLEO)*, 2015, OSA Technical Digest (online) (Optical Society of America, 2015), paper STu4K.7

## **NON-GRADUATE POSITIONS**

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09/2013-6/2012: **California Institute of Technology**,  
Visitor/Guest Scientist - Yariv Group,  
Department of Electrical Engineering & Applied Physics

08/2012-08/2013: **California Institute of Technology**,  
Research Assistant - Fraser Group, Department of Biology  
Yariv Group, Department of Electrical Engineering  
& Applied Physics

## **TEACHING ASSISTANSHIP AT CALTECH:**

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- Full Time TA, Che103b, Momentum Transport Phenomena  
Professor: **Dr. Julie A. Kornfield**, Chemical Engineering, Caltech
- Full Time TA, Che103c, Mass Transport Phenomena  
Professor: **Dr. Mark E. Davis**, Chemical Engineering, Caltech

## **PREVIOUS ACADEMIC/LABORATORY/WORKING/TRAINING EXPERIENCE**

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09/2014-12/2020: **University of Southern California, Fraser Group**  
Translational Imaging Center

**Position:** PhD Graduate Student in BME

**Project Name:** Exploring the role of *vegfr* transcripts during vascular development in the zebrafish embryo

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10/2013-10/2014: **University of Southern California, Rich Robert's Group**  
Chemistry Department

**Position:** PhD Rotation Graduate Student & graduate collaboration

**Project Name:** Multicolor mRNA imaging with the use of RBPs & their cognitive hairpins

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10/2012-7/2013: **California Institute of Technology, Yariv Group**  
Electrical Engineering and Applied Physics

**Position:** Research Assistant

**Project Name:** Label free optical bio-sensing measurements using an optoelectronic swept frequency laser and an integrated ultra high quality factor silicon nitride micro-disk resonator

with micro-fluidic analyte delivery”

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08/2012-10/2012: **California Institute of Technology, Fraser Group**  
Biological Imaging Center, Beckman Institute

**Position:** Volunteer Staff Scientist/Technician

**Project Name:** Imaging techniques and dynamic cell behaviors in cardiovascular development of zebrafish model”

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01/2011-06/2012: **California Institute of Technology, Heath Group**  
Department of Chemistry

**Position:** Graduate Student in Chemical Engineering

**Project Name:** Whole Genome Amplification on-chip, with the use of Single cell Microfluidic device, for T cell receptor cloning”

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06/2010 - 08/2010: **Medicon Hellas SA**– Athens, Greece  
**Assistant Chemist Position in the R&D department**

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10/2009-05/2010: **University of Patras, Christopoulos Group**  
Chemistry Department

**Position:** Undergraduate work (Diploma Thesis)

**Project Name:** Protein Purification and DNA recombinant techniques

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06/2009 - 09/2009: **Medicon Hellas SA**– Athens, Greece  
**Position:** Practical Training in the Quality Control lab, R&D

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06/2008 - 07/2008: **Medicon Hellas SA**– Athens, Greece  
**Position:** Unpaid work to attain experience, Production/R&D

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07/2005 – 09/2005: **Medicon Hellas SA** - Athens, Greece  
**Position:** Unpaid work at the Quality control lab and Production/R&D Department

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07/2004 – 09/2004: **Medicon Hellas SA** - Athens, Greece  
**Position:** Unpaid work at the Secretariat and QC lab  
Documentation and records,  
Introduction to QC, basic lab skills, ISO 9001 and ISO 13485

## **LANGUAGES**

1. English (FCE, TOEFL)
2. French (DELFI,II, Sorbonne I)
3. Greek (Native speaker)

## **PROGRAMMING LANGUAGES**

- 1.MATLAB (Excellent)
- 2.FORTRAN 90/95 (Excellent)
- 3.PYTHON 3.0 (Intermediate)

## **OTHER SOFTWARE SKILLS:**

Autocad / HYSIS (Hyprotech) / DNAStar(Sequencing) / Mathematica / Maple / ChemDraw / Microsoft Office/ Origin/ Fiji/ Imaris, Bitplane/Solid Works/ HYSF (Hyperspectral Analysis)

## **COURSES TAKEN AT UNIVERSITY OF SOUTHERN CALIFORNIA (2013-14):**

- Physiological Control Systems (BME 511)
- Advanced Studies of the Nervous System (BME 502)
- Signal & Systems Analysis (BME 513)
- Advanced Topics in Biomedical Systems (BME 501)

## **COURSES TAKEN AT CALTECH (2010-12):**

- Heterogeneous Kinetics and Reaction Engineering (ChE 152)
- Physical and Chemical Rate Processes (Advanced Transport Phenomena) (ChE151a&b)
- Chemical Thermodynamics (ChE/Ch 165)
- Introduction to Statistical Thermodynamics (ChE/Ch 164)
- Biology of Cancer (Bi129)
- Biophysics of Macromolecules (Bi/Ch 132)
- Immunology (Bi 114)
- Physical Biology of the Cell (BE/APh161)