

## C U R R I C U L U M V I T A E

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*Date of Birth* 10/08/1988

### EDUCATION

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*25.09.2014 - 01.11.2016* **National Technical University of Athens, School of Applied Mathematical and Physical Sciences (S.A.M.P.S.), Department of Physics**  
M.Sc. Degree in “Microsystems and Nanodevices”, Grade: 8.22/10  
M.Sc. thesis’ title: “Copper-coated, plasma micro-nanotextured superhydrophobic polymeric surfaces with antibacterial properties”  
Supervisors: Dr. A. Tserepi, Dr. E. Gogolides

*19.09.2006 – 24.03.2014* **National and Kapodistrian University of Athens (N.K.U.A.), School of Science, Physics Department**  
(completion of studies from 09.2013)  
B.Sc. Degree in Physics, Grade: 6.68/10  
B.Sc. thesis’ title: Τίτλος Διπλωματικής Εργασίας: “Modelling energy extraction from intense tidal activity in the Persian Gulf with OSU Tidal Prediction Software”.  
Supervisor: Assoc. Prof. S. Sofianos

*2003 – 2006* **Private Contemporary School “Manesis”**  
High School Graduation Diploma, Grade: 19.3/20

### RESEARCH & WORK EXPERIENCE

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*30.11.2017- today* **National Technical University of Athens, School of Applied Mathematical and Physical Sciences (S.A.M.P.S.), Department of Physics**  
Ph.D. Candidate  
Thesis title: “Microfluidic devices for the study of cell behavior”  
Thesis carried out at **National Centre for Scientific Research (N.C.S.R.) “Demokritos”**, Institute of Nanoscience and Nanotechnology, in cooperation with **Biomedical Research Foundation Academy of Athens (B.R.F.A.A.)**  
Supervising committee: Prof. I. Zergioti, Dr. A. Tserepi, Dr. E. Gogolides

*15.06.2021 – 17.02.2022* **National Centre for Scientific Research (N.C.S.R.) “Demokritos”, Institute of Nanoscience and Nanotechnology**

Research associate, employment contract for the Horizon 2020 project:  
HARMoNIC – HierARchical Multiscale NanoInterfaces for enhanced  
Condensation processes

Scientific director: Dr. Evangelos Gogolides

01.01.2018 – 20.11.2018 **Biomedical Research Foundation Academy of Athens (B.R.F.A.A.)  
Inflammation and Autoimmunity Lab**

External research associate, fellowship contract for the ERC project:

LUPUSCARE: Precision care in Systemic autoimmunity: an integrated multi  
tissue/level approach for Systemic LUPUS Erythematosus (SLE)

Scientific director: Professor of Pathology - Rheumatology Dimitrios T. Boumpas

11.2016-01.2017 **National Centre for Scientific Research (N.C.S.R.) “Demokritos”, Institute  
of Nanoscience and Nanotechnology (I.N.N.)**

Testing and optimization of experimental results from M.Sc. thesis, and publication  
of journal paper.

10.2015-10.2016 **National Centre for Scientific Research (N.C.S.R.) “Demokritos”, Institute  
of Nanoscience and Nanotechnology (I.N.N.)** in cooperation with the **Institute  
of Biosciences and Applications (I.B.A.)**

M.Sc. thesis

Experience acquired: Inductively Coupled Plasma Reactor (ICP), Surface  
Functionalization & Characterization at the micro-nanoscale, Cell culturing, Cell  
Imaging and Characterization Methods (Fluorescence Microscopy,  
Spectrophotometry).

## **PARTICIPATION IN CONFERENCES/WORKSHOPS**

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- **D. Kefallinou**, M. Grigoriou, A. Zeniou, D. T. Boumpas, E. Gogolides, A. Tserepi. *In vitro* bone marrow tissue development in 3D microfluidic cell culture chambers towards bone marrow-on-a-chip. Poster presented at: 45th International Conference on Micro & Nano Engineering; 23 – 26 September 2019; Rodos Palace Hotel, Rhodes Greece.
- K. Ellinas, **D. Kefallinou**, A. Tserepi, E. Gogolides. Plasma micro-nanotextured 3D surfaces and their applications for wetting and antibacterial control. Superhydrophobicity and Wetting Symposium (SWS); 16 - 17 May 2018; Aalto University, Espoo, Finland.
- K. Ellinas, K. Tsougeni, A. Kanioura, **D. Kefallinou**, K. Stamatakis, P. Petrou, A. Tserepi, S. Kakabakos, E. Gogolides. Plasma micro-nanotextured 3D surfaces and their applications in wetting and life sciences. Euromat 2017; 17 – 22 September 2017; Thessaloniki, Greece.
- N. S. Heliopoulos, A. Galeou, S. K. Papageorgiou, E. P. Favvas, F.K. Katsaros, E. Gogolides, A. Tserepi, K. Ellinas, **D. Kefallinou**, K. Stamatakis. An in situ antimicrobial susceptibility testing method based on cyanobacteria chlorophyll a fluorescence. 12th Workshop on Cyanobacteria; 19 – 22 May 2016; Arizona State University Campus, Tempe, Arizona, USA.

## ATTENDANCE IN CONFERENCES/WORKSHOPS

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- 1st International Congress: from drug discovery to drug delivery, November 2014, Hellenic Society of Medicinal Chemistry, Athens, Greece
- 2nd Hellenic Forum for Science, Technology and Innovation, July 2014, N.C.S.R. “Demokritos”, Athens, Greece

## PUBLICATIONS (ARTICLES IN JOURNALS)

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- **Kefallinou, D.**; Grigoriou, M.; Boumpas, D. T.; Gogolides, E.; Tserepi, A. Fabrication of a 3D microfluidic cell culture device for bone marrow-on-a-chip. *Micro and Nano Engineering* 2020, 9, 100075. <https://doi.org/10.1016/j.mne.2020.100075>
- **Kefallinou, D.**; Ellinas, K.; Speliotis, T.; Stamatakis, K.; Gogolides, E.; Tserepi, A. Optimization of Antibacterial Properties of “Hybrid” Metal-Sputtered Superhydrophobic Surfaces. *Coatings* 2020, 10, 25. <https://doi.org/10.3390/coatings10010025>
- Ellinas, K.; **Kefallinou, D.**; Stamatakis, K.; Gogolides, E.; Tserepi, A. Is there a threshold in the antibacterial action of Superhydrophobic Surfaces?. *ACS Appl. Mater. Interfaces* 2017, 9, 45, 39781–39789. <https://doi.org/10.1021/acsami.7b11402>

## SCHOLARSHIPS

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24.04.2018 – 24.04.2021 **State Scholarships Foundation (IKY)**

Doctoral scholarship co-financed by Greece and the European Union (European Social Fund- ESF) through the Operational Programme «Human Resources Development, Education and Lifelong Learning» in the context of the project “Strengthening Human Resources Research Potential via Doctorate Research” (MIS-5000432).

## COMPUTING

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*Operating Systems*

Microsoft Windows

*Software*

- AutoCAD
- Fusion 360
- Comsol Multiphysics
- Matlab

- Origin Graphing & Analysis
- MS Office

*Programming Languages*      C

*Certificates*                      ECDL Core Certificate

## **LANGUAGES**

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*Greek*                                  Mother tongue

*English*                                Proficient user (C2 level)

*Certificate of Proficiency in English*, University of Cambridge, Grade B, 2014

*French*                                 Independent user (B1 level)

*Diplôme d'Études en Langue Française*, Delf 1<sup>er</sup> degré, 2002

## **INTERESTS**

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*Dance -  
Ballet/Contemporary  
(2011 – today)*

Dance schools: Morianova-Xaralambi, Xoroxronos, Cumana