

## STYLIANOU ANDREAS-CURRICULUM VITAE

<b>Name</b>	Family name: <i>Stylianou</i> , First name: <i>Andreas</i>
<b>Personal Information</b>	Date of birth: <i>12 May 1982</i>
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	<a href="http://www.ucy.ac.cy/afm/">http://www.ucy.ac.cy/afm/</a>
	<a href="http://www.ucy.ac.cy/cancer_biophysics/en/">http://www.ucy.ac.cy/cancer_biophysics/en/</a>
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	ResearcherID: <i>B-9466-2014</i>
	Scopus Author ID: <i>35753796100</i>

## CURRENT POSITION

<i>01/01/2019-today</i>	<b>Post-doctoral Research Fellow for the project “PACA-FingerPrints”</b>
School:	Cancer Biophysics Laboratory/ Department of Mechanical and Manufacturing Engineering, Faculty of Engineering/ University of Cyprus, Cyprus
Project:	University of Cyprus Advanced Post-doctoral Research Fellowship “NanoMechanical FingerPrints of Pancreatic Cancer” (“PACA-FingerPrints”)
<i>01/05/2019-today</i>	<b>Post-doctoral Research Fellow for the project “PACA-FingerPrints”</b>
School:	Cancer Biophysics Laboratory/ Department of Mechanical and Manufacturing Engineering, Faculty of Engineering/ University of Cyprus, Cyprus
Project:	European Research Council Proof of Concept (ERC-2018-PoC-838414 CancerFingerPrints): “Identification of nano-mechanical fingerprints as a biomarker for cancer treatment prognosis”

## FORMER PROFESSIONAL APPOINTMENTS

<i>1/09/2017-31/12/2018</i>	<b>Post-doctoral Research Fellow for the project “ReEngineeringCancer ”,</b>
School:	Cancer Biophysics Laboratory/ Department of Mechanical and Manufacturing Engineering, Faculty of Engineering/ University of Cyprus, Cyprus
Project:	European Research Council Starting Grant (ERC-2013-StG-336839 ReEngineeringCancer): Re-engineering the tumor microenvironment to alleviate mechanical stresses and improve chemotherapy. Supervisor: Dr. Stylianopoulos, T. (University of Cyprus).
<i>1/06/2015-31/05/2017</i>	<b>Marie Skłodowska-Curie Post-doctoral fellow for the project “Myo-Desmoplasia”</b>
School:	Cancer Biophysics Laboratory/ Department of Mechanical and Manufacturing Engineering, Faculty of Engineering/University of Cyprus
Project:	“MYO-DESMOPLASIA”: Modulating the behaviour of cancer myofibroblasts to control tumour desmoplasia (MSCA-IF-2014-658769 MYO-DESMOPLASIA). Supervisor: Dr. Stylianopoulos, T. (University of Cyprus), Advisory Committee: Dr. Patrickios, C. (University of Cyprus) and Jain, R.K. (Harvard Medical School and Massachusetts General Hospital)

## EDUCATION

- 1/08/2012 – 12/01/2018 **Ph.D**  
School: Health Care Management, Faculty of Economics and Management, Open University of Cyprus, Cyprus  
Research Area: Social Aspects of Health  
Thesis: Ethical and Social Aspects of New Medical Technology (Supervisor: Dr. Talias, M.)
- 10/12/2007 – 10/04/2014 **Ph.D**  
School: Biomedical Optics & Applied Biophysics Laboratory (BOAB)/ Division of Electromagnetics, Electrooptics and Electronic Materials (DEEEM)/School of Electrical and Computer Engineering (ECE) /National Technical University of Athens (NTUA), Greece  
Thesis: “*Optical Radiation Effects on Collagen Topology Studied by AFM and SEM*” (Supervisor: Prof D. Yova)  
Courses: Photonic Application in Biomedicine, Biomedical Engineering, Artificial Neural Networks and Machine Learning, Applications of Non Linear Optics in Photonic Communications and Setups, Electrooptics and Applications, Materials and Environment, Multiple Criteria Decision Making (Courses Grade: 10 out of 10).
- 31/01/2009 – 31/12/2011 **Master of Science in Medical Physics**  
School: Faculty of Science, Technology, Engineering and Mathematics/ The Open University, United Kingdom  
Thesis: “*Nanotechnology supported emerging non ionizing medical imaging modalities: The case of OCT and THz*” (Supervisor: Dr. M. McJury)  
Courses: Imaging in Medicine, Radiotherapy and its Physics, Project Module
- 25/09/2002 – 12/11/2007 **Bachelor of Science/Master of Science**  
School: Department of Physics/ School of Applied Mathematical and Physical Science / NTUA, Greece  
Thesis: “*Study of the Production of Second Harmonic Generation from Collagen Structures with Atomic Force Microscopy*” (Supervisor: Prof D. Yova, Grade: 10 out of 10)  
Flows: ‘Optoelectronics & Lasers’ and ‘Nuclear Physics & Particle Physics’

## SUMMARY OF ACCOMPLISHMENTS

- 34 articles published or accepted for publication in major peer-reviewed scientific journals (first author in 16 and corresponding author in 16), 1 book chapter (first and corresponding author), 4 journal articles and 4 book chapters under review/preparation.
- 11 articles published in referred conference proceedings (first and corresponding author to 8).
- h-index: 13, citations: 422 (source: Scopus) and h-index of 14, citations: 481 (source: Google Scholar)
- 33 Conference Presentations (19 podium and 14 poster presentations, from which the 25 were presented by myself) in international/national conferences.
- 4 Theses/Monographs (2 PhD theses, 1 Master Thesis and 1 Diploma Thesis).
- Marie Skłodowska-Curie Post-doctoral fellow
- Cyprus Research Promotion Foundation- CYPRUS RESEARCH AWARD – YOUNG RESEARCHER
- University of Cyprus Advanced Post-doctoral Research Fellow
- 3 accomplished projects as the major investigator with total research Funding: €217,399, one in progress (funding: €74,000) and one more to be started (funding: €60,000) [Total personal funding: €351,399]
- Cyprus Management Committee (MC) member of the COST action “Correlated Multimodal Imaging in Life Sciences” (COMULIS, CA17121)
- More than 9 years of teaching experience: ■ Course leader in 5 graduate courses and 1 master , supervision 3 diploma theses ■ teaching assistant in 2 graduate and 3 postgraduate courses and co-supervision of 3 Diploma Theses and 1 Master Thesis.
- European Research Council Starting Grant (ERC StG 2019) was positive evaluated in Step 1 (success rate, less than 20%) and passed in Step 2: interviews.

- Editorial board member in the journals *BMC Materials* (Springer- Nature), *Journal of Biomaterials*, (Hindawi), *Scanning* (Hindawi/Wiley) and *Molecular and Cellular Oncology* (Frontiers)
- Lead Guest editor in 2 Special Issue for the journal *Scanning* (Hindawi/Wiley) and *Materials* (MDPI).

#### **FUNDING ID (FELLOWSHIPS & GRANTS)**

- 01/09/2019-31/12/2021    *Cyprus Research and Innovation Foundation - CYPRUS RESEARCH AWARD – YOUNG RESEARCHER, “The NanoMechanical Profile of Sarcoma” (CULTURE/AWARD-YR/0119, “MehanoSarcoma”),  
Funding: €60,000,  
Role: Principal Investigator*
- 01/01/2019-31/12/2020    *University of Cyprus Advanced Post-doctoral Research Fellowship “NanoMechanical FingerPrints of Pancreatic Cancer” (“PACA-FingerPrints”)  
Funding: €74,000  
Score: excellent  
Role: Fellow/Principal Investigator*
- 12/10/2018-11/10/2022 • *COST action “Correlated Multimodal Imaging in Life Sciences” (COMULIS, CA17121)  
Role: Cyprus Management Committee (MC) member*
- 06/2015-05/2017    *Horizon 2020 - Marie Skłodowska-Curie Individual Fellowship (MSCA-IF-2014-658769) MYO-DESMOPLASIA: Modulating the behaviour of cancer myofibroblasts to control tumour desmoplasia.  
Funding: €163,649  
Score: 96.80%  
Role: Fellow*
- 09/2010 –04/2014    *Scholarship “Heracleitus II” (68/1054) “Optical Radiation Effects on Collagen Topology Studied by AFM and SEM”  
The scholarship was co-financed by the European Union (European Social Fund – ESF) and Greek national funds through the Operational Program “Education and Lifelong Learning” of the National Strategic Reference Framework (NSRF) - Research Funding Program: Heracleitus II. Investing in knowledge society through the European Social  
Funding: €38,750  
Score: 10 out of 10  
Role: Fellow*
- 03/2008–01/2011    *Scholarship for PhD students  
Scholarship from DEEEM/ECE /NTUA, Greece*
- 10/2007-11/2009    *Karatheodoris, BasicResearch Program 65/1582 (National Technical University of Athens) “Non-linear microscopy investigation of quaternary structure of collagen”.  
Funding: €15,000  
Role: Fellow*

#### Under Evaluation/Preparation:

► European Research Council Starting Grant (MechanoOptical Biomarker, ERC StG 2020).

Requested funding: €1,500,000

Role: *Principal Investigator.*

[The 2019 ERC StG proposal (NanoMechanoBiomarker, ERC StG 2019, Proposal number: SEP-210556223), “An atomic force microscopy-based NanoMechanical Biomarker for cancer treatment prediction” was positive evaluated in Step 1 (success rate, less than 20%)].

#### Declined offers:

- February 2019, Research Projects H.F.R.I. for Postdoctoral Researchers, Hellenic Foundation for Research & Innovation “BRAINIAC: BRAIn Tumor Nanomechanical Fingerprints Identification and Classification through Atomic Force Microscopy“,  
Approved Funding : €119,500 ,  
Role: Principal Investigator/Coordinator,
- March 2019 , Bank of Cyprus IDEA project for Start Ups “AFroMite Nanomechanics“,  
Approved Funding : €12,000,  
Role: Founder

## TRIBUTES, AWARDS & DISTINCTIONS

- 2019 CYPRUS RESEARCH AWARD – YOUNG RESEARCHER, Cyprus Research and Innovation Foundation  
15-17 November, 2018 1st poster award  
Louca, M., Stylianou A., Minia, A., Pliaka, V., Alexopoulos, L., Gkretsi, V., and Stylianopoulos, T. (2018) "Opposing effects of RSU-1 silencing in glioma cell invasion depending on their aggressiveness" 6th International Multithematic Bio-Medical Congress (IMBMC), Bio-Medical Scientific Cyprus (BSC), 15-17 November, 2018, Nicosia, Cyprus
- 02/2014 Tribute at Global Medical Discovery  
The target Selection Team at Global Medical Discovery has identified the publication: “Surface nanoscale imaging of collagen thin films by Atomic Force Microscopy” as a Key Scientific Article contributing to excellence in biomedical research.
- 2013 “Progress of Science” award  
The publication (journal): Stylianou, Yova, D. (2013) “Surface nanoscale imaging of collagen thin films by Atomic Force Microscopy” *Materials Science and Engineering C*, 33 (5), 2947-2957, was award by Thomaidio Foundation, NTUA, Greece
- 06/2012 Tribute at Photonics Spectra  
Part of the work that was performed in the BOAB Laboratory by Stylianou A. for the needs of his PhD Thesis under the supervision of prof. D. Yova was specially presented by the editor in the July 2012 issue of Photonics Spectra (Savage, L. (2012) “Nanoscale biomaterials require close observation” *Photonics Spectra* 46 (7), pp. 46-50).
- 2012 “Progress of Science” award  
The publication (conference proceeding): Stylianou, A., Yova, D., Politopoulos, K. (2012) “Atomic Force Microscopy Quantitative and Qualitative Nanoscale Characterization of Collagen Thin Films”, *Proceedings of the 5th Conference on Emerging Technologies in NDT, CRC Press 2012, Chapter 65, pp. 415-420*, was award by Thomaidio Foundation, NTUA, Greece
- 2011 “Progress of Science” award  
The publication (journal): Stylianou, A., Politopoulos, K., Kyriazi, M., Yova, D. (2011) “Combined information from AFM imaging and SHG signal analysis of collagen thin films” *Biomedical Signal Processing and Control*, 6 (3), 307-313, was award by Thomaidio Foundation, NTUA, Greece

## TEACHING EXPERIENCE

### Course leader/ module convenor

#### University of Cyprus

- Technical Speaking and Writing - MME507 (postgraduate, 4 ECTS), Master (M.Sc.) in Advanced Materials and Nanotechnology, Department of Mechanical and Manufacturing Engineering, Faculty of Engineering, (Fall 2020- to be started)
- Experimental and Statistical Analysis - MME 105 (undergraduate, 5 ECTS), Department of Mechanical and Manufacturing Engineering, Faculty of Engineering, (Fall 2019)

#### Cyprus University of Technology, Cyprus

- Medical Physics - EEN 557 (postgraduate, 8 ECTS), MSc in Biomedical Engineering, Department of Electrical Engineering, Computer Engineering and Informatics, Faculty of Engineering and Technology (Fall 2017).
- Biophysics-BIO 110 (undergraduate, 3 ECTS), Department of Nursing, Faculty of Health Sciences, (Spring 2015, 2016).

#### European University of Cyprus, Cyprus

- Academic Skills – EUC 110 (undergraduate, 5 ECTS), Program of Biological Sciences, Department of Life Science, School of Sciences (Fall 2018, 2019)
- Guided Study in Health Sciences – MNU 630 (postgraduate, 10 ECTS), Master Degree of Nursing, Program of Nursing, Department of Health Science, School of Sciences (Fall 2019)
- Research Methodology III in Occupational Therapy – ERG 422 (undergraduate, 5 ECTS), Program of Occupational Therapy, Department of Health Science, School of Sciences (Fall 2019)
- Academic Skills – EUC 110 (undergraduate, 5 ECTS), Program of Pharmacy, Department of Health Science, School of Sciences (Fall 2018)
- Pharmaceutical Physics-PHA311 (undergraduate, 6 ECTS), Program of Pharmacy, Department of Life Science, School of Sciences (Fall 2016, 2017).
- Physics for Life/Biological Sciences-BIO224 (undergraduate, 7 ECTS), Program of Biological Sciences, Department of Life Science, School of Science (Spring 2015, 2016, 2017, 2018, 2019).
- Physics for Life/Biological Sciences-BIO234 (undergraduate, 7 ECTS) Program of Pharmacy Department of Life Science, School of Sciences (Spring 2015, 2016, 2017, 2018, 2019).

Intercollege Limassol, Cyprus

- Physics 1- PHYS-150 (undergraduate, 8 ECTS), Program of Computer Science (Spring 2015)

#### *Invited Talks*

University of Cyprus

- Cell and Tissue Mechanics- MMK 436 (undergraduate, 7 ECTS), Department of Mechanical and Manufacturing Engineering, Faculty of Engineering (Spring 2017, 2018)
- Polymer nanocomposites - MMK557 (postgraduate, 8 ECTS), Master (M.Sc.) in Advanced Materials and Nanotechnology, Department of Mechanical and Manufacturing Engineering, Faculty of Engineering (Fall 2017)

European University of Cyprus

- A. Stylianou “Atomic Force Microscopy in Sickness and in Health” EUC Colloquium on Mathematics, Computer Science and Engineering of the Department of Computer Science and Engineering, 12 April 2018, European University, Cyprus.

*Teaching Assistant (2007-2013):* Teaching laboratory exercises, laboratory material preparation, tutoring assignments, guest class talks/presentations

National Technical University of Athens

- Introduction to Biomedical and Molecular Engineering (undergraduate course, 6<sup>th</sup> semester, flow I: Biomedical Engineering), School of Electrical and Computer Engineering (ECE)
- Measurements and Controls in Biomedical Technology, (undergraduate course, 7<sup>th</sup> semester, flow I: Biomedical Engineering), School ECE
- Photonics Applications in biomedicine (postgraduate), School ECE
- Biophotonics and Nanotechnology (postgraduate), inter-departmental program of postgraduate studies “Biomedical Engineering” co-organised by the School of ECE of NTUA, the School of Mechanical Engineering of NTUA and the School of Medicine of the University of Patras.
- Bionanotechnology, Sensing and Optical Imaging (postgraduate), inter-departmental program of postgraduate studies “Microsystems and Nanodevices”. This course is co-organised by the Schools of ECE , Applied Mathematical and Physical Sciences, Mechanical Engineering and Naval Architecture and Marine Engineering of the NTUA.

#### **SUPERVISION OF UNDERGRADUATE/GRADUATE STUDENTS**

*2019-2020 Diploma Theses*

*European University of Cyprus, Department of Health Science, School of Sciences*

- Troumbounia Chara, “Desmoplasia and drug delivery in cancer therapy”, Program of Pharmacy (in progress)
- Panteli Rafaella, “Atomic Force Microscopy and Alzheimer”, Program of Pharmacy, (in progress)
- Lazarou Vasiliki, “Lasers in Pharmaceutical Research” Program of Biological Science, (in progress)
- Nikos Procopiou “Role of cancer-associated fibroblasts in tumor microenvironment”, Program of Biological Sciences, (in progress)

*2018-2019 Diploma Theses*

*European University of Cyprus, Department of Health Science, School of Sciences*

- Andreas, Ioannou, “New Photosensitizers in Photodynamic Therapy”, Program of Pharmacy
- Alexis Kyprianou, “Atomic Force Microscopy in Pharmaceutical Research”, Program of Pharmacy
- Andreas Nathanael, “Low Level Laser Therapy for wound healing” Program of Biological Sciences
- Giorgos Potamitis, “Atomic Force Microscopy for assessing the nanomechanical properties of cancer cells” Program of Biological Sciences

*10/12/2007 – 10/04/2014 Co-supervision of Diploma and Master Theses*

Under the supervision of prof. D. Yova co-supervision of two Diploma Thesis and one Master Thesis. BOAB Laboratory/ EEEM/ECE /NTUA, Greece

- Leonidas Kontos (2015) “Atomic Force Microscopy Investigation of the Influence of the Substrate Characteristics in the Formation of Collagen Thin Films” Diploma Thesis, School of Electrical and Computer Engineering, NTUA
- Aikaterini Simatou (2013) “The Influence of Ultraviolet Radiation on Collagen Thin Films”, Diploma Thesis, School of Electrical and Computer Engineering, NTUA
- Stylianos-Vasilios Kontomaris (2010) “Surface Characterization of Physical Modifications of Collagen Thin Films by Atomic Force Imaging Microscopy”, Master Thesis, postgraduate studies “Microsystems and Nanodevices”, NTUA
- Despina Prigki (2008) “Measuring Second Harmonic Signal from Collagen”, Diploma Thesis, School of Applied Mathematical and Physical Science , NTUA

**ADDITIONAL TRAINING AND PROFESSIONAL EXPERIENCE**

*1 /2015 –5/2015 Special Scientist (Part-time lecturer)*

*Department of Nursing, Faculty of Health Sciences, Cyprus University of Technology.*

*2/2015-6/2015, 2/2016-6/2016, 9/2016-1/2017, 2/2017-6/2017, 9/2017- 1/2018 (in progress) Scientific Collaborator, Department of Life Sciences, School of Sciences, European University of Cyprus*

*2/2015-5/2015 Part Time Lecturer*

*Program of Computer Science, Intercollege Limassol*

*10/12/2007 –31/12/2013 Teaching and Research Assistant*

*Biomedical Optics & Applied Biophysics Laboratory, School of Electrical and Computer Engineering, NTUA, Greece*

*01/11/2010 –31 /01/2011 Researcher*

*Institute of Mechanics of Materials and Geostructures S.A (IMMG SA), Greece*

*07/11/2006 – 08/12/2006 Practical Training*

*Forth Photonics Hellas S.A., Greece*

*12/07/2000 – 12/09/2002 Reservist Grate Officer/ Second Lieutenant in the Infantry Cypriot National Guard,*

**INSTITUTIONAL RESPONSIBILITIES**

01/09/2015-Today Responsible for Atomic Force Microscopy Facilities, Department of Mechanical and Manufacturing Engineering, Faculty of Engineering/University of Cyprus

01/01/2009 – 10/04/2014 Web maintenance National Technical University of Athens, Greece. Website organization and maintenance for the Laboratory of Biomedical Optics and Applied Biophysics, School of Electrical and Computer Engineering, National Technical University of Athens, Greece.

10/12/2007 – 10/04/2014 Responsible for Atomic Force Microscopy Facilities, Biomedical Optics & Applied Biophysics Laboratory/ Division of Electromagnetics, Electrooptics and Electronic Materials/School of Electrical and Computer Engineering /National Technical University of Athens, Greece

07/11/2006 – 08/12/2006 Design of a database for electrooptic equipment, Forth Photonics Hellas S.A. Institution, Greece

**REVIEWER**

**Projects:**

- National Science Centre Poland, Call Sonata, March 2020
- Marie Skłodowska-Curie Individual Fellowships, Horizon 2020, (H2020-MSCA-IF-2019), October - November 2019

**Journals:**

- ACS Applied Nano Materials (ACS Publications) ■ Scientific Reports (Nature) ■ Material Science and Engineering: C (Elsevier), ■ The Journal of Physical Chemistry (ACS Publications), ■ Cancers (MDPI) ■ Frontiers in Oncology (Frontiers) ■ Journal of Mechanical Behavior of Biomedical Materials (Elsevier), ■ Scanning (Wiley), ■ Applied Surface Science (Elsevier), ■ Biomedical Signal Processing and Control (Elsevier), ■ Micro and Nanosystems (Bentham Science), ■ Science and Engineering Ethics (Springer), ■ Current Pharmaceutical Biotechnology (Bentham Science), ■ Journal of Industrial and Engineering Chemistry (Elsevier), ■ Journal of Biological Physics (Springer) ■ The International Journal of Molecular Sciences (MDPI), ■ International Journal of Nanomedicine (DovePress), ■ Cells (MDPI) ■ PeerJ (PeerJ, Inc).

**Conferences (Conference Proceedings):**

- 3<sup>rd</sup> International Conference on Biomedical Engineering and Biotechnology (ICBEB 2014), Beijing, China, September 25-28, 2014, ■ International conference on Materials Science (ICMS 2015), Shanghai, China, March 29-31, 2015, ■ 2015 Global Conference on Polymer and Composite Materials (PCM 2015), Beijing, China, May 16-18, 2015.

**EDITORIAL BOARD**

- *BMC Materials*, Springer Nature  
([https://www.mdpi.com/journal/materials/special\\_issues/Collagens\\_Biomaterials](https://www.mdpi.com/journal/materials/special_issues/Collagens_Biomaterials))
- *Journal of Biomaterials*, Hindawi  
(<https://www.hindawi.com/journals/jnm/editors/>)
- *Scanning*, Hindawi/Wiley  
(<https://www.hindawi.com/journals/scanning/editors/>)

**GUEST EDITOR**

- Special Issue “Atomic Force Microscopy: In Sickness and in Health”, *Scanning, Hindawi/Wiley*, Publication Date: April 2019  
(<https://www.hindawi.com/journals/scanning/si/786910/cfp/>)
- Special Issue “Collagens, Collagen-Based and Collagen-Mimetic Biomaterials: Preparation, Characterization and Applications”, *Materials*, MDPI, Publication Date: 31 December 2020  
([https://www.mdpi.com/journal/materials/special\\_issues/Collagens\\_Biomaterials](https://www.mdpi.com/journal/materials/special_issues/Collagens_Biomaterials))

**SCIENTIFIC CONFERENCE ORGANIZATION**

Program Committee Member MEDICON 2016 (XIV Mediterranean Conference on Medical and Biological Engineering and Computing), March 31<sup>st</sup>-April 2<sup>nd</sup> 2016, Paphos, Cyprus

**SEMINARS, SUMMER SCHOOLS AND QUALIFICATIONS**

- 01/2017 Secondment in RTD TALOS Limited as part of the Marie Skłodowska-Curie project for training in project management including risk analysis and Intellectual property rights (IPR).
- 06/2016 *EUROAFMForum 2016*  
Workshop and conference for AFM users co-organized by the Departments of Quantum Matter Physics at University of Geneva and Oxford Instruments Asylum Research, June, 22-24, 2016, Geneva, Switzerland
- 06/2009 *4<sup>th</sup> International Graduate Summer School: Biophotonics '09*  
Summer school co-organized by the Lund University, Sweden, and the Technical University of Denmark, June, 6 - 13, 2009, Ven Island, Sweden
- 09/2002-11/2007 *Teaching Efficiency*  
Attended 7 special undergraduate courses offered by NTUA for teaching efficiency

**PROFESSIONAL MEMBERSHIPS**

- Marie Curie Alumni Association (MCAA)
- International AFMBioMed Conferences Association (IACA)

- International *Society* for Optical Engineering (SPIE)
- Cyprus Association of Medical Physics and BioMedical Engineering (CAMPBE)
- IEEE (Institute of Electrical and Electronics Engineers) Engineering in Medicine and Biology Society (EMBS)
- European Society of Biomechanics (ESB)

## LANGUAGES

Greek Native  
English Proficiency

Certificate of Proficiency in English, University of Michigan, GCE O-level University of London

## COMPUTER SKILLS

Full basic computer literacy Microsoft Office, Adobe Dreamweaver/Photoshop,  
Knowledge of special packages for Atomic Force Microscopy Image Analysis (AtomicJ, Veeco -DI SPMLab NT, Veeco -IP-Image Processing and Data Analysis, WSxM and Gwyddion) and Optical Microscopy (ImageJ).  
Software tools for publishing and managing bibliographies like EndNote and RefWorks

## PUBLICATION LIST

**Journal Paper Publications (Peer-reviewed)**  
**(H-index: 13)**

- P.1. Panagi, M., Voutouri, C., Mpekris, F., Papageorgis, P., Martin, M., Martin, J. Demetriou, P., Pierides, C., Costeas, P., Polydorou, C., **Stylianou, A.**, Louca, M., Kataoka, K., Cabral, H., Stylianopoulos, T. (2020) "TGF- $\beta$  inhibition combined with cytotoxic nanomedicine normalizes triple negative breast cancer microenvironment towards anti-tumor immunity ", *Theranostics*, 10(4), 1910-1922 [doi:10.7150/thno.36936](https://doi.org/10.7150/thno.36936).
- P.2. Gkretsi, V., Louca, M., **Stylianou, A.**, Minadakis, G., Spyrou M. G., Stylianopoulos, T. (2020) "Inhibition of Breast Cancer Cell Invasion by Ras Suppressor-1 (RSU-1) Silencing Is Reversed by Growth Differentiation Factor-15 (GDF-15)", *International Journal of Molecular Sciences*, 20(1): 163, [doi: 10.3390/ijms20010163](https://doi.org/10.3390/ijms20010163)
- P.3. Kontomaris, S.V., Malamou, A., Stylianou, A (2019) "Is it necessary to calculate Young's modulus in AFM nanoindentation experiments regarding biological samples?", *Micro and Nanosystems*, (accepted).
- P.4. Kontomaris, S.V., **Stylianou, A.**, Nikita, K.S. Malamou, A., (2019) "Determination of the linear elastic regime in AFM nanoindentation experiments on cells", *Materials Research Express*, 6 (11), 115410, [doi:10.1088/2053-1591/ab4f42](https://doi.org/10.1088/2053-1591/ab4f42).
- P.5. Kontomaris, S.V., **Stylianou, A.**, Nikita, K.S. Malamou, A. (2019) "A discussion regarding the application of the Hertz contact theory on biological samples in AFM nanoindentation experiments", *Micro and Nanosystems*, (conditionally accepted).
- P.6. **Stylianou, A.**, Kontomaris, S.V., Alexandratou, E., Grant, C (2019) "Atomic Force Microscopy on biological materials related to pathological conditions", *Scanning*, 19, 8452851, [doi.org/10.1155/2019/8452851](https://doi.org/10.1155/2019/8452851)
- P.7. Kontomaris, S.V., Alexandratou, E., Grant, C, **Stylianou, A.**, (2019) "Atomic Force Microscopy: In Sickness and in Health" Editorial to the Special Issue Atomic Force Microscopy: In Sickness and in Health "*Scanning*, 19, 6149247, [doi.org/10.1155/2019/6149247](https://doi.org/10.1155/2019/6149247)
- P.8. Kontomaris, S.V., **Stylianou, A.**, Nikita, K.S. Malamou, A., Stylianopoulos, T (2019) "A simplified approach for the determination of fitting constants in Oliver – Pharr method regarding biological samples", *Physical Biology* 16(5):056003. [doi: 10.1088/1478-3975/ab252e](https://doi.org/10.1088/1478-3975/ab252e).
- P.9. **Stylianou A.**, Gkretsi, V., Louca, M., L.C. Zacharia and T. Stylianopoulos (2019) " Collagen content and extracellular matrix cause cytoskeletal remodelling in pancreatic fibroblasts ", *Journal of the Royal Society of Interface*, 16 (154):20190226, [doi.org/10.1098/rsif.2019.0226](https://doi.org/10.1098/rsif.2019.0226)
- P.10. Louca, M., **Stylianou, A.**, Minia, A., Pliaka, V., Alexopoulos, G. L., Gkretsi, V. and Stylianopoulos, T. (2019) "Ras suppressor-1 (RSU-1) promotes cell invasion in aggressive glioma cells and inhibits it in non-aggressive cells through STAT6 phospho-regulation", *Scientific Reports*, 9 , 7782, [doi.org/10.1038/s41598-019-44200-8](https://doi.org/10.1038/s41598-019-44200-8).
- P.11. Gkretsi, V., Louca, M., **Stylianou, A.**, George Minadakis, G., Spyrou, G.M and Stylianopoulos, T. (2019) "Inhibition of breast cancer cell invasion by Ras suppressor-1 (RSU-1) silencing is reversed by Growth Differentiation Factor-15 (GDF-15)", *International Journal of Molecular Sciences*, 20 (1), [doi:10.3390/ijms20010163](https://doi.org/10.3390/ijms20010163)
- P.12. **Stylianou A.**, Lekka, M. and Stylianopoulos, T. (2018). "AFM Assessing of Nanomechanical FingerPrints for Cancer Early Diagnosis and Classification: from single cell to tissue level", *Nanoscale*, 10(45):20930-20945, [doi: 10.1039/c8nr06146g](https://doi.org/10.1039/c8nr06146g)
- P.13. Kontomaris, S.V, **Stylianou, A.**, Malamou, A, Nikita K.S (2018) "An alternative approach for the Young's modulus determination of biological samples regarding AFM indentation experiments", *Materials Research Express*, 6 (2) 025407, [doi.org/10.1088/2053-1591/aaef1](https://doi.org/10.1088/2053-1591/aaef1)
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#### Journal Publications under preparation/review

- U.P.1. **Stylianou, A** "Collagen D-band: A unique nano-characteristic as it is investigated with Atomic Force Microscopy"
- U.P.2. **Stylianou, A.** and Stylianopoulos, T. " Atomic force microscopy as a tool for assessing the cellular elasticity to identify cancer tissues"
- U.P.3. Ioannou, A. and **Stylianou, A.** "Novel photosensitizers for laser based photodynamic therapy"
- U.P.4. Nathanail A. and **Stylianou, A.** "Low Lever Laser Therapy for wound healing "

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- C.P.7. Kontomaris, S.V., **Stylianou, A.**, Yova, D., Politopoulos, K (2012) "Mechanical Properties of Collagen Fibrils on Thin Films by Atomic Force Microscopy Nanoindentation", *IEEE Proceedings, 12<sup>th</sup> International Conference on Bioinformatics & Bioengineering (BIBE 2012)*, art. no. **6399742**, pp. 608-613, [doi: 10.1109/BIBE.2012.6399742](https://doi.org/10.1109/BIBE.2012.6399742)
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- C.1. **Stylianou, A.** (2019) "Extracellular matrix stiffness and transforming growth factor- $\beta$  modulates pancreatic stromal cells' cytoskeletal remodeling" 10th Annual Symposium "Physics of Cancer", 25-27, Leipzig, Germany (**podium**).
- C.2. **Stylianou, A.** (2018) "Cell and tissue nanomechanical properties in cancer research" 2nd "Current Advances in Cancer Research" Colloquium, 13 December 2018, European University, Nicosia, Cyprus (**podium**).
- C.3. **Stylianou, A.**, Gkretsi, V. and Stylianopoulos, T. (2018) "Pancreatic Cancer Associated Fibroblasts Stiffness and Invasion Properties are Modulated by Transforming Growth Factor- $\beta$ " 8th World Congress of Biomechanics, 8-12 July, Dublin, Ireland (**podium**).
- C.4. **Stylianou, A.**, Gkretsi, V. and Stylianopoulos, T. (2017) "Normal and Cancer Associated Pancreatic Fibroblasts Shape Modulation is mediated by Transforming Growth Factor  $\beta$  and Matrix Stiffness", *AFM Biomed Conference*, 4-8 September 2017, Krakow, Poland (**podium**).
- C.5. **Stylianou, A.**, Stylianopoulos, T. (2016) "Investigation of the effect of Tumor Growth Factor- $\beta$  on Pancreatic Normal and Cancer Associated Fibroblasts", *Cyprus Researchers' Night 2016*, 30 September, Nicosia, Cyprus (**poster**).
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- C.7. **Stylianou, A.**, Kontomaris, S.V., Yova, D (2016) "Probing Collagen Nanocharacteristics After Low-Level Red Laser Irradiation" *XIV Mediterranean Conference on Medical and Biological Engineering and Computing 2016*, March 31st–April 2nd 2016, Paphos, Cyprus (**podium**).
- C.8. Kontomaris, S.V., Yova, D, Sambani, k and **Stylianou, A.** (2016) " AFM Investigation of the Influence of Red Light Irradiation on Collagen" *XIV Mediterranean Conference on Medical and Biological Engineering and Computing 2016*, March 31st–April 2nd 2016, Paphos, Cyprus (**podium**).
- C.9. **Stylianou, A.**, Yova, D., (2014) "Optical Radiation Effects on Collagen Topology Studied with AFM and SEM", *Heracleitus II Dissemination Workshop*, 22 May 2014, NTUA, Athens, Greece, (**poster**).
- C.10. **Stylianou, A.**, Yova, D., Alexandratou, E. (2013) "Investigation of UV interactions with collagen thin films by using AFM microscopy imaging", *8<sup>th</sup> Meeting of Hellenic Society for Biomaterials*, 15-16 November 2013, Athens, Greece (**podium**).
- C.11. **Stylianou, A.**, Yova, D., Alexandratou, E. (2013) "Assessing Fibroblasts Response on Collagen Thin Films Nanotopography by Atomic Force Microcopy", *ELEVIT 2013, 5<sup>th</sup> Panhellenic Conference on Biomedical Technologies*, 4-6 April 2013, Athens, Greece (**poster**).
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- C.13. **Stylianou, A.**, Yova, D., Politopoulos, K. (2012) "Atomic Force Microscopy Surface Nanocharacterization of UV-Irradiated Collagen Thin Films", *IEEE 12th International Conference on Bioinformatics & Bioengineering, BIBE 2012*, 11-13 November 2012, Larnaca, Cyprus (**podium**).
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- C.16. **Stylianou, A.**, Yova, D., Petri, A. (2012) "AFM Characterization of Collagen Thin Films for Assessing Fibroblasts Response on Collagen Nanotopography", *9<sup>th</sup> International Conference on Nanoscience & Nanotechnologies*, 3-6 July, 2012, Thessaloniki, Greece (**poster**).
- C.17. **Stylianou, A.**, Yova, D., Politopoulos, K. (2012) "Development and Atomic Force Microscopy Nanoscale Characterization of Collagen Thin Films for Medical and Biological Applications", *4<sup>th</sup> Panhellenic Conference on Biomedical Technologies, International Federation for Medical and Biological Engineering, ELEVIT 2012*, 20-21 January 2012, NTUA, Athens, Greece (**poster**).
- C.18. **Stylianou, A.**, Yova, D., Politopoulos, K. (2011) "Collagen Thin Films Development for Biomedical Applications", *6<sup>st</sup> Meeting of Hellenic Society for Biomaterials*, November 18-19, Athens, Greece (**podium**).
- C.19. **Stylianou, A.**, Yova, D., Politopoulos, K. (2012) "Atomic Force Microscopy Quantitative and Qualitative Nanoscale Characterization of Collagen Thin Films", *Emerging Technologies in Non-Destructive Testing V-5<sup>th</sup> Conference on Emerging Technologies in NDT*, 19-21 September 2011, Ioannina, Greece (**podium**).
- C.20. **Stylianou, A.**, Politopoulos, K., Yova, D. (2011) "Atomic Force Microscopy Imaging of the Nanoscale Assembly of Type I Collagen on Controlled Polystyrene Particles Surfaces", *5<sup>th</sup> European IFMBE Conference, EMBEC 2011*, 14-18 September 2011, Budapest, Hungary (**poster**).
- C.21. **Stylianou, A.**, Kontomaris, S.B., Kyriazi, M., Yova D. (2010) "Surface characterization of collagen films by atomic force microscopy", *12<sup>th</sup> Mediterranean Conference on Medical and Biological Engineering and Computing, MEDICON 2010*, 27-30 May 2010, Chalkidiki, Greece (**podium**).
- C.22. **Stylianou, A.**, Kyriazi, M., Politopoulos, K., Yova, D. (2009) "Combined SHG signal information with AFM imaging to assess conformational changes in collagen", *9<sup>th</sup> International Conference on Information Technology and Applications in Biomedicine, IEEE ITAB 2009*, 4-7 November 2009, Larnaca, Cyprus (**poster**).
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- C.24. **Stylianou, A.**, Kyriazi, M., Yova, D. (2009) "Study of the influence of physicochemical factors in the creation of thin collagen films with atomic force microscopy", *1<sup>st</sup> Meeting Hellenic Society for Biomaterials & H.A.O.S.T*, 27-29 November 2009, Athens, Greece (**podium**).
- C.25. **Stylianou, A.**, Kyriazi, M., Yova, D. (2009) "Study of collagen type I with AFM", *3<sup>rd</sup> Meeting of Hellenic Society for Biomaterials*, 21-22 November 2008, Athens, Greece (**poster**).

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- C.26. Louca, M., **Stylianou A.**, Minia, A., Pliaka, V., Alexopoulos, L., Gkretsi, V., and Stylianopoulos, T. (2018) "Opposing effects of RSU-1 silencing in glioma cell invasion depending on their aggressiveness" *6<sup>th</sup> International Multithematic Bio-Medical Congress (IMBMC), Bio-Medical Scientific Cyprus (BSC)*, 15-17 November, 2018, Nicosia, Cyprus (1<sup>st</sup> poster award) (**poster**).
- C.27. Louca, M., **Stylianou, A.**, Gkretsi, V., and Stylianopoulos, T. (2018), "The Role of RSU-1 in Glioma Cells", *25th Biennial Congress of the European Association for Cancer Research (EACR25)* 30 June - 03 July, Amsterdam (**poster**).
- C.28. Gkretsi V., Louca M., **Stylianou A.**, Minadakis G., Spyrou G., and Stylianopoulos T. (2018) "Inhibition of breast cancer cell invasion by Ras suppressor-1 (RSU-1) silencing is reversed by Growth Differentiation Factor-15 (GDF-15)", *7th International Conference of the Cyprus Society of Human Genetics*, December 7th 2018, Nicosia, Cyprus (**podium**).
- C.29. Gkretsi V., **Stylianou A.**, Louca M., and Stylianopoulos T. (2017) "Identification of Ras Suppressor-1 (RSU-1) and Vasodilator-Stimulated Phosphoprotein (VASP) as potential breast cancer metastasis biomarkers using a three-dimensional in vitro approach", *7th International Conference on Tumor-Host Interaction and Angiogenesis*, 25-28 June, 2017, Monte Verità, Ascona, Switzerland (**poster**).
- C.30. Gkretsi, V., **Stylianou, A.**, Stylianopoulos, T. (2016) "Targeting breast cancer metastasis: A bioengineering approach", *21st World Congress on Advances in Oncology & 19th International Symposium of Molecular Medicine*, 6-8 October, 2016, Athens, Greece (**podium**).
- C.31. **Stylianou, A.**, Kontomaris, S.V., Yova, D., Balogiannis, G. (2013) "AFM Multimode Imaging and Nanoindentation Method For Assessing Collagen Nanoscale Thin Films Heterogeneity" *XIII Mediterranean Conference on Medical and Biological Engineering and Computing - MEDICON 2013*, 25-28 September 2013, Sevilla, Spain (**podium**).
- C.32. Kontomaris, S. V., **Stylianou, A.**, Yova, D. (2013) "Investigation of collagen thin films mechanical heterogeneity in nanoscale using AFM", *8<sup>th</sup> Meeting of Hellenic Society for Biomaterials*, 15- 16 November 2013, Athens, Greece (**podium**).

- C.33. Kontomaris, S.V., Yova, D., **Stylianou, A.**, Sampani, K., Balogiannis, G., Politopoulos, K. (2013) "Mechanical Heterogeneity of Collagen Fibrils", *5<sup>th</sup> Panhellenic Conference on Biomedical Technologies, ELEVIT 2013*, 4-6 April 2013, Athens, Greece (**poster**).

### Monographs/Theses

- M.1.**Stylianou, A** (2017) "Ethical and Social Aspects of New Medical Technology" (PhD thesis), Open University of Cyprus (ISBN 978-9963-695-61-4)
- M.2.**Stylianou, A** (2014) "*Optical Radiation Effects on Collagen Topology Studied with AFM and SEM* " (PhD thesis), assessed through Greece National Documentation Center and National Technical University Central Library.
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- M.4.**Stylianou, A** (2007) "*Study of the Production of Second Harmonic Generation from Collagen Structures with Atomic Force Microscopy*" (Diploma thesis), assessed through National Technical University Central Library (ID. no. 000112848).