

CURRICULUM VITAE

Name: Mylonakis Michail (Mikis)
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E-mail: milmikis1@gmail.com
Date of birth: 21/05/1993, Chania, Crete

PROFESSIONAL DEGREES AND CERTIFICATIONS

07/2018-7-2024 PhD in Materials Science & Engineering, University of Crete, Heraklion, Department of Materials Science & Engineering, PhD Thesis title: "Wavefront shaping for Microscopic Imaging of biological samples"
09/2015 – 05/2018 MSc in Materials Science & Technology, University of Crete, Heraklion, Department of Materials Science & Technology, MSc Thesis title: "Optical systems for imaging ultra-cold atoms" Degree: 8,91
09/2011-09/2015 BSc in Physics, University of Crete, Heraklion , Physics Department. Degree: 7,17

RESEARCH AND PROFESSIONAL EXPERIENCE

08/2018 – 07/2019 Participation in research project : "Cavity assisted , portable polosimeter for chirality measurement of gases and liquids, EPOCHSE. Scientific director: Prof. Rakitzis Petros. Foundation for Research and Technology - (FORTH) Institute of Electronic Structure & Laser, Heraklion, Crete
07/2018 – present PhDc in laboratory: "Laboratory for Biophotonics and Molecular Imaging (LBMI)", Foundation for Research and Technology - (FORTH) Institute of Electronic Structure & Laser, Heraklion, Crete
07.2016-07.2018 Design and instrumentation of novel optical setups.
-Research project of public investments. Scientific director: Dr.Wolf von Klitzing.
Foundation for Research and Technology - (FORTH) Institute of Electronic Structure & Laser, Heraklion, Crete
05/2015 - 06/2016 Simulation and optomechanical design of optical setups with the usage of Zemax, Autodesk, Autocad software.
-Research project "MatterWave"(GA no 601180). Scientific director: Dr.Wolf von Klitzing
Foundation for Research and Technology - (FORTH) Institute of Electronic Structure & Laser, Heraklion, Crete

TEACHING EXPERIENCE

04/2022-09/2022 -Teaching assistant of Dr. Manolis Spanakis in Physics lab II lesson.

-Teaching assistant of Dr. Costis Papadopoulos in Laboratory of Manufacturing and Mechanical Design lesson.

- 09/2022-01/2023**
09/2021-01/2022
09/2020 - 01/2021
09/2019 - 01/2020
09/2018 - 01/2019
- Teaching assistant of Prof. Maria Kafesaki in Quantum mechanics lesson. Deepening knowledge of Quantum Mechanics and familiarize myself with this teaching.
University of Crete, Heraklion, Department of Materials Science & Technology
- 09/2017 – 01/2018**
09/2016 – 01/2017
- Teaching assistant of Prof. Stefanos Trachanas in Quantum mechanics lesson that is taught with the novel e-Learning platform “Mathesis”. Deepening knowledge of Quantum Mechanics and familiarize myself with this teaching.
University of Crete, Heraklion, Department of Materials Science & Technology

PARTICIPATION IN SEMINARS/CONFERENCES

- Onassis Lectures in Physics, "Quantum physics frontiers explored with cold atoms, molecules and photons", 24-28 July 2017, Heraklion, Crete, Greece.
- Predoc school on Cold atoms and quantum transport, "Matter-wave optics with thermal clouds and BEC", poster, 2-13 October 2017, Les Houches, France.
- FOMO2018: Frontiers in Matter Wave Optics 2018, 17-21 September, Chania, Crete, Greece.
- Resolution Revolution 4th ESMI summer conference, 1-6 July 2019, Chania, Crete, Greece
- **Mikis Mylonakis** , Athanasios Zacharopoulos , Evangelos Marakis, Dimitrios G. Papazoglou and Giannis Zacharakis, *Adaptive light sheet microscopy for in vivo imaging of fluorescently labeled specimens*. **Oral Presentation** on OSA European Conferences on Biomedical Optics (ECBO) 2021.
- **Mikis Mylonakis** , Athanasios Zacharopoulos , Evangelos Marakis, Dimitrios G. Papazoglou and Giannis Zacharakis, *Adaptive light sheet microscopy for in vivo imaging of fluorescently labeled specimens*. **Oral Presentation** on European Molecular Imaging Meeting (EMIM) 2022.
- **Mikis Mylonakis** , Athanasios Zacharopoulos , Evangelos Marakis, Maira Tampakaki, Joseph Papamatheakis, Dimitrios G. Papazoglou and Giannis Zacharakis, *A novel adaptive optics illumination device for in vivo imaging of fluorescently labeled specimens*. **Oral Presentation** on OSA European Conferences on Biomedical Optics (ECBO) 2023.
- Maria Tampakaki, Eleftheria Tzamali, Eirini Makrygiannaki, Georgios Tzedakis, **Mikis Mylonakis**, Evangelos Marakis, Kyriaki Sidiropoulou, Vangelis Sakkalis, Joseph Papamatheakis, Giannis Zacharakis, *A Tripartite Approach through In Vitro, Ex Vivo, and In Silico Modelling for Deeper Understanding of Glioblastoma*, **Poster Presentation**

on 19th European Molecular Imaging Meeting (EMIM), 2024, Porto, Portugal

- Maria Tampakaki, Eleftheria Tzamali, Georgios Tzedakis, **Mikis Mylonakis**, Evangelos Marakis, Vangelis Sakkalis, Joseph Papamatheakis, Giannis Zacharakis, *PML-driven glioblastoma pathophysiology: Insights from experimental models and computational simulations*, **Poster Presentation** on IESL-FORTH Retreat, 2023, Heraklion Crete, Greece
- Maria Tampakaki, Eleftheria Tzamali, , Georgios Tzedakis, Eirini Makrygiannaki, **Mikis Mylonakis**, Evangelos Marakis, Giannis Zacharakis, Vangelis Sakkalis, Joseph Papamatheakis, *Brain cancer evolution under the prism of intra-tumoral heterogeneity*, **Poster Presentation** on 18th European Molecular Imaging Meeting (EMIM), 2023, Salzburg, Austria

SCHOLARSHIPS/ AWARDS

- Teaching Assistance Scholarship, University of Crete (04/2022-09/2022)
- 1st Prize Science on Stage Europe 2019
- 1st Prize Science on Stage Greece 2018
- Hellenic Foundation for Research and Innovation(HFRI-ELIDEK) scholarship for PhD students: -From 10/2019.
- Admitted 4th in Physics Department, University of Crete, Heraklion ,Crete in 2011.

PUBLICATIONS IN PEER REVIEWED JOURNALS

- **Mikis Mylonakis**, Saurabh Pandey, Kostas G. Mavrikis, Giannis Drougakis, Georgios Vasilakis, Dimitris G. Papazoglou, and Wolf von Klitzing, "Simple precision measurements of optical beam sizes," *Appl. Opt.* **57**, 9863-9867 (2018) <https://doi.org/10.1364/AO.57.009863>
- Pandey S, Mas H, Drougakis G, Mavrikis KG, **Mylonakis M**, Vasilakis G, Bolpasi V, von Klitzing W. "Antireflection coated semiconductor laser amplifier for Bose-Einstein condensation experiments". *AIP ADVANCES* **8**: 095020, 2018. <https://doi.org/10.1063/1.5047839>
- **Mikis Mylonakis**, George J. Tserevelakis, Georgios Vlachos, Eleftheria Fanouraki, Anastasios Pavlopoulos, Michalis Pavlidis, and Giannis Zacharakis, "*Bimodal optical and optoacoustic multiview microscope in the frequency-domain*," *Opt. Lett.* **49**, 462-465 (2024). <https://doi.org/10.1364/OL.510384>

PATENTS

- AN ASSEMBLY OF OPTICAL ELEMENTS AND A METHOD FOR CONTROLLING LIGHT , Ioannis Zacharakis, **Michail(Mikis) Mylonakis**, Evangelos Marakis, Athanasios Zacharopoulos and Emmanouil Vergis, European Patent application no. 22164624.3 <https://patents.google.com/patent/WO2023186345A1>

LANGUAGES

Greek

Native language

English

Good knowledge (Level 3), London Tests of English- Edexcel

