

Curriculum Vitae

Personal details

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| Last name | Mavrakis |
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Education

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| 11.2017-present | PhD student at the department of Materials Science and Technology, University of Crete, Greece |
| 9.2014-6.2017 | Master of Science from the department of Materials Science and Technology, University of Crete, Greece Grade: 8,5/10 |
| 9.2010-3.2014 | Bachelor degree from the department of Materials Science and Technology, University of Crete, Greece Grade: 7,7/10 |

Research Experience

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| 1.2018-present | Foundation for Research and Technology, Institute of Electronic Structure and Laser, Heraklion, Greece. -Research Project "Development of a multiparametric label-free imaging system for the study of neurodegenerative diseases" scientific supervisor Dr. Giannis Zacharakis. |
| 6.2016-6.2017 | Foundation for Research and Technology, Institute of Electronic Structure and Laser, Heraklion, Greece. -Research Project "A Guided Matter-Wave Interferometer on a Atom Chip" scientific supervisor Dr. Wolf von Klitzing. |
| 5.2015-6.2016 | Foundation for Research and Technology, Institute of Electronic Structure and Laser, Heraklion, Greece. -European Space Agency Research project "Optical Breadboard Technologies for complex space missions" scientific supervisor Dr. Wolf von Klitzing. |

Teaching Experience

- 10.2018- 1.2019** Physics Department, University of Crete.
-Laboratory Assistant, Laser and Modern Optics Undergraduate Laboratory.
- 9.2016- 12.2016** Department of Materials Science and Technology, University of Crete
-Laboratory Assistant, Materials Chemistry Undergraduate Laboratory.
- 3.2016- 6.2016** Department of Materials Science and Technology, University of Crete
-Laboratory Assistant, Physics II Undergraduate Laboratory.

Publications

- Mylonakis, Mikis, Saurabh Pandey, **Kostas G. Mavrakis**, Giannis Drougakis, Georgios Vasilakis, Dimitris G Papazoglou, and Wolf von Klitzing, 'Simple Precision Measurements of Optical Beam Sizes', *Applied Optics*, 57 (2018), 9863–67, link.
- Pandey, Saurabh, Hector Mas, Giannis Drougakis, **Kostas G. Mavrakis**, Mikis Mylonakis, Georgios Vasilakis, and Wolf von Klitzing, 'Antireflection Coated Semiconductor Laser Amplifier for Bose-Einstein Condensation Experiments', *AIP Advances*, 8 (2018), 095020, link.
- Kostas G. Mavrakis, 'Novel optical breadboard beam steering techniques for space applications', Master thesis, link.
- Training Workshop on Quantum Technologies in Space, "Optical distribution board for atom quantum experiments in space", poster, 11-14 September 2017, Lisbon, Portugal.
- Deutsche Physikalische Gesellschaft (DPG), "Stable Zerodur optical benches for space applications", poster, 6-10 March 2017, Mainz, Germany.
- International Conference on Space Optics (ICSO), "Stable Zerodur optical benches for space applications", poster, 18-21 October 2016, Biarritz, France.

Workshops and Seminars

- Biophotonics and Imaging graduate summer school "BIGGS2018", 27-31 August 2018, Galway, Ireland.
- Onasis Lectures in Physics, "Quantum physics frontiers explored with cold atoms, molecules and photons", 24-28 Ιουλίου 2017, Heraklion, Greece.
- Workshop on advanced material characterization, Research Centre for Nuclear Research, Demokritos, 27-28 November 2015, Athens, Greece.

Honors and Awards

- Soukouli Scholarship from department of Materials Science and Technology based on academic excellence.

Language

- Greek, Native speaker
- English, Proficient user (C2), Proficiency of Cambridge.
- French, Independent user (B2), Delf1 de Institut Francais.