Eirini I. Katsipoulaki

PERSONAL INFORMATION

Address: Anopoleos 26

Date of birth:11 April 1997

Heraklion, Crete, Greece

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RESEARCH INTERESTS

Two Dimensional Materials, Transition Metal Dichalcogenides (TMDs), Mechanical Exfoliation, Photochemical Doping, Interaction of Light and Matter, Raman Spectroscopy, micro-Photoluminescence Spectroscopy, Micro-Differential Reflectance Spectroscopy, Spin Valley Polarization measurements, Cryogenic System.

EDUCATION

September 2019-Present

University of Crete

Department of Physics

M.S.c Photonics and Nanoelectronis

Modules covered included: Laser theory and Technology, Applied Quantum Mechanics, Semiconductor Physics, Ultrafast Laser physics, Optoelectronics, foundations of Modern Optics

Master Thesis: "Pulsed laser Induced doping effects on monolayer and bilayer WSe₂" supervised by Dr. Emmanuel Stratakis. Associate Researcher, Inst. Of Electronic Structure and LASER (IESL), Foundation of Research and Technology Hellas (FORTH).

September 2015-November 2019 University of Crete

Department of Physics

B.S.c Physics

Modules covered included: Classical Mechanics, Quantum Mechanics, Semiconductor Physics, Optoelectronics, Solid State Physics, Differential Equations, Mathematics for Physicists, Astrophysics, Laboratories of Laser and Modern optics, Cosmology

Bachelor "Pulsed Thesis: laser Deposition and thin films WS2" supervised by Dr. Characterization of Emmanuel Stratakis. Associate Researcher, Inst. Of Electronic Structure and LASER (IESL), Foundation of Research and Technology Hellas (FORTH).

Bachelor grade: 8.54/10 Qualification: "Excellent mark"/ "Arista"

September 2012-June 2015

1st General Lyceum of Rethymno, Crete, Greece

WORKING EXPERIENCE

September 2020-December 2020

Teaching Assistant as a master student, at the undergraduate "Advanced **Physics** Laboratory", course **Physics** of Crete. University Prof. Department, Instructor: Eleftherios Iliopoulos.

September 2019-December 2019

Teaching Assistant as a master student, at the undergraduate course "Advanced Physics Laboratory", **Physics** Department, University of Crete. Instructor: Dr. Ioannis Karadamoglou.

September 2019-Today

M.Sc. Photonics Nanoelectronics, Department of Physics, University of Crete, Greece - Institute of Electronic Structure & Laser, FORTH.

March 2019-May 2019 Work experience as an undergraduate student at Ultrafast Laser Micro-Nano Processing Laboratory, Institute of Electronic Structure & Laser, FORTH. March 2019-September 2019 Undergraduate student, Department of Physics, University of Crete, Greece - Ultrafast Laser Micro-Nano Processing Laboratory, Institute of Electronic Structure & Laser, FORTH, Heraklion, Crete, Greece. Bachelor thesis: Pulsed laser deposition and characterization of thin films WS2, supervised by Dr. Emmanuel Stratakis. September 2018-December 2018 Teaching Assistant as an undergraduate student, at the undergraduate course "Optics Laboratory", **Physics** Department, University of Crete. Instructor: Prof. Ioannis Kominis. February 2018-May 2018 Teaching Assistant as an undergraduate student, at the "Optics Laboratory", undergraduate course Department, University of Crete. Instructor: Prof.Theodoros Tzouros. February 2017-May 2017 Teaching Assistant as an undergraduate student, at the undergraduate course "Mechanics and Thermodynamics Laboratory", Physics Department, University of Crete. Instructor: Prof.Andreas Zezas. September 2016-December 2016 Teaching Assistant as an undergraduate student, at the undergraduate course "Mechanics and thermodynamics Laboratory", Physics Department, University of Crete.

Instructor: Prof. Andreas Zezas.

CONFERENCE AND SEMINARS

September 2015-Today

Active attendance at physics colloquia and IESL seminars at University of Crete, Physics Dept., and Foundation of Research and Technology Hellas, respectively.

March 2018

March 2021

17° conference of association of Greek physicists

American Physical Society March meeting 2021

SKILLS

MUSIC SKILLS

EXPERIMENTAL Mechanical Exfoliation of Two Dimensional Crystals Pulsed laser irradiation in a precursor gas atmosphere **OUALIFICATION &** Raman Spectroscopy CHARACTERIZATION TECHNIQUES Micro-Photoluminescence Spectroscopy Micro-Differential Reflectance Spectroscopy • Cryogenic System • Pulsed laser deposition of thin films LANGUAGES Greek (Native) English-owner of "Examination for the Certificate of Proficiency in English" (ECPE), Level:C2, University of Mishigan French-owner "Diplome of de Langue Litterature Francaises", Level:C2, University of Sorbonne. Computation in Windows and Linux(Unix) environment COMPUTER SKILLS Knowledge of Origin Lab, Microsoft Word, Excel, Power-Point, FORTRAN77 programming language. Owner of ECDL diploma.

Owner of Harmony degree

Piano knowledge

In last the year of the degree of Flute

AWARDS/PRIZES/DISTINCTIONS

November 2019

Graduation of Physics Department, University of Crete, Second best grade of the Graduation (8.54/"Arista")

REFEREES

Dr. Emmanuel Stratakis, Associate Researcher, Ultrafast Laser Micro and Nano-Processing (ULMNP), Inst. Of Electronic Structure and Laser (IESL), Foundation of Research and Technology Hellas (FORTH), Heraklion Crete, Greece.

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Professor Dimitrios Charalambidis, Physics Department, University of Crete, Heraklion Crete, Greece.

e-mail address: chara@iesl.forth.gr