

STAVROULA VOVLA

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EDUCATION

Doctorate Studies

January 2021-present

Ultrafast X-ray Spectroscopy of Perovskite Semiconductors
Istituto di Fotonica e Nanotecnologie, Consiglio Nazionale delle Ricerche, Milano, Italy
Dipartimento di Fisica, Politecnico di Milano, Milano, Italy

Integrated Master of Science in Applied Physics

2013-2020

Major in Material Science
Minor in Nuclear and Particle Physics
School of Applied Mathematical and Physical Sciences, National Technical University of Athens

PROJECTS AND RESEARCH EXPERIENCE

Master Thesis

October 2019-July 2020

Study of the vibrational properties and Photoluminescence of All-Inorganic Metal Halide Perovskites using Raman spectroscopic techniques in varying temperatures (80 – 420°K). Measurements took place at NTUA's School of Applied Mathematical and Physical Sciences and UoA's Physics Department.

IR and Raman Spectroscopy

June-July 2018

Study of clay minerals and pharmaceutical specimens through spectroscopic techniques as part of the University's internship in collaboration with NHRF's Theoretical and Physical Chemistry Institute.

Pyroelectricity and Infrared Radiation Detectors

January 2018

Research and presentation of the pyroelectric properties of materials and their usage as passive infrared sensors in motion detectors.

Gamma Radiation Absorption and Shielding

April-May 2017

Detection of ^{22}Na decaying nuclei passing through Pb and Al thin films with the use of a NaI scintillation counter in order to determine the attenuation coefficient of each element and the films' half-value layer.

TECHNICAL SKILLS

Programming HTML, JAVA, FORTRAN77, PYTHON

Software ORIGINLAB, OPUS, L^AT_EX, INKSCAPE, WIRE, ASEQ SPECTRA, SRIM, PSPICE, SACALC, AUDACITY, MSOFFICE, MATLAB, WXMAXIMA

Languages Greek (mother tongue)
English - ECPE from the University of Michigan
Japanese - JLPT N4 from The Japan Foundation
French - DELF B1 from L'Institut Français de Grèce
Italian (novice)

Other Driving Licence - B category (Class 1 equivalent)

EXTRA-CURRICULAR ACTIVITIES

SMART-X OSA Chapter

President of the Virtual Student Chapter

Private Tutor

Maths, Physics and Chemistry tutoring to middle and high-school students

Teaching Assistant

Exam supervision, grading at Private Cram School «Emfasi»

Shodan - Shotokan Karate

Holder of black belt in Shotokan Karate

Hobbies

Painting (acrylics, oil on canvas), biking, baking