

CURRICULUM VITAE (C.V.)

PERSONAL INFORMATION

NAME	<i>Stylios</i>
SURNAME	<i>Petrakis</i>
YEAR OF BIRTH	<i>1973</i>
MARITAL STATUS	<i>Married, two children</i>
ADDRESS	<i>Somatas, Rethymno, Greece, P.C.74100</i>
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EDUCATION

2016 *Ph.D. candidate, University of Ioannina, Physics Department.*

Thesis title: “Coherent and high brightness XUV sources using strong laser pulses”. The experimental part is implementing in Center of Plasma Physics & Laser (CPPL) facilities in Rethymno.

2013 *Master degree (M.Sc.) in “Microelectronics – Optoelectronics”, University of Crete, Physics Department. Thesis title: “Study of High Harmonic Generation in Xe-gas through control of the polarization of two time-delayed femtosecond laser pulses”, (ultrashort laser pulses - matter interaction)*

2008 *Bachelor of Science with Honours in Physics, Hellenic Open University. Grade 7,12/10 (Very Good). Grant winner for academic year of 2002-2003.*

1991 *Diploma of Technical and Vocational Senior High School. Electrical Engineering sector. Grade 16.3/20.*

FOREIGN LANGUAGES

- **ENGLISH:** *Level: Lower with good knowledge of physics terminology (TOIEC grade: 620).*
- **ITALIAN:** *Level: SUPERIORE (PALSO).*

COMPUTER SKILLS

- **APPLICATIONS FOR MATHEMATICS:** *Good Knowledge of Wolfram Mathematica, Matlab, Maple, Origin, ect.*
- **SIMULATIONS:** *Comsol Multiphysics.*
- **PROGRAMMING LANGUAGES:** *C, C++.*
- **AUTOMATION:** *LabView, Agilent Vee.*
- **ELECTRONICS CIRCUIT ANALYSIS - IMPLEMENTATION:** *MultiSim, Ultiboard, PSpice, Ptoerus.*
- **OFFICE:** *Microsoft Office –OpenOffice.*
- **CAD:** *Inventor 3D, AutoCAD, SketchUp.*
- **OTHER:** *ImageJ, Arduino, ECDL Core, ict Advanced to the units of Communication System Management.*

TEACHING EXPERIENCE

- *Secondary Education: Physics, Biology, Chemistry, Natural Source Management.*
- *Higher Education (University, Technological Educational Institute): Analogue Electronics, Digital Electronics, Electromagnetism. Co-supervision of undergraduate students in the framework of final year projects.*

LASER SYSTEMS EXPERIENCE

- *Application Scientist from 1/9/2013, on ultra-sort laser lab of CPPL, responsible for: Handling, maintenance and repairing of laser systems and other lab devices.*
- *Participation on experimental implementation in CPPL.*
- *Visitor participant on experimental implementation in other labs (e.g. Jena 2015).*
- *Experimental part of PhD thesis (running)*
- *Experimental part of Master thesis.*

SEMINARS

- *ERASMUS Intensive Program 2011 “Applications of Electronics in Plasma Physics”, Technological Educational Institute of Crete – Electronics Department, Center for Plasma Physics & Laser (CPPL).*
- *«Modern technologies of micro- and nano- electronics and the green aspect», 2011, Institute of Electronic Structure and Laser – University of Crete.*
- *«Finite elements and handling methods for physical problems», 2013, Technological Educational Institute of Crete, Center for Plasma Physics & Laser (CPPL).*

PUBLICATION

- E. Tzianaki, Skarvelakis M. Bakarezos, G. D. Tsibidis, **S. Petrakis**, P. A. Loukakos, C. Kosmidis, M. Tatarakis, and N. A. Papadogiannis
“Controlling nanoscale acoustic strains in Silicon using chirped femtosecond laser pulses”
Appl. Phys. Lett. 108, 254102 (2016)

OTHER RELATIVE INFORMATION

- *Electrical engineering license.*