

PERSONAL INFORMATION

EFSTATHIOS CHARLAFTIS



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Sex Male | Date of birth 11/11/1993 | Nationality Greek

EDUCATION AND TRAINING

2018–Present

PhD Course in Physics

University of Pavia (Italy)

- Research Topic: Biomedical Application of Magnetic Resonance Techniques and Magnetic Materials
- Supervisor: Prof. Pietro Carretta
- Research Interests: Dynamic Nuclear Polarization, Nuclear Magnetic Resonance, Magnetic Resonance Imaging, Organic Compounds for Molecular Imaging, Magnetism and Magnetic Materials

2016–2018

M.Sc. in Condensed Matter Physics

University of Pavia (Italy)

- Thesis Title: "Dynamic Nuclear Polarization of Completely Methylated β -Cyclodextrin Macromolecules"
- Supervisor: Prof. Pietro Carretta

2011–2016

B.Sc. in Physics

University of Ioannina (Greece)

- Thesis title: Theoretical Simulation of the Electron Paramagnetic Resonance Spectrum of Superparamagnetic Nanoparticles
- Supervisor: Prof. Yiannis Deligiannakis

PERSONAL SKILLS

Mother tongue(s) Greek

Foreign language(s)

English	(FCE) B2
Italian	(PLIDA) B1

Job-related skills

- Solid State NMR
- Dynamic Nuclear Polarization Instrumentation
- Cryogenics
- Electron Spin Resonance
- Vibrating Sample Magnetometer
- X-Ray Diffraction

- Digital skills
- Data Analysis at Origin
 - Programming in C Language at Ubuntu Environment
 - Other Programs: MS Office, Open Office Apache, Mathematica

- Other skills
- Photography
 - Archery

Driving licence B

ADDITIONAL INFORMATION

- Publications
- Molecular Dynamics and Hyperpolarization Performance of Deuterated β -Cyclodextrins, F. Caracciolo, E. Charlaftis, L. Melone and P. Carretta, J. Phys. Chem. B, **2019**, 123 (17), pp 3731–3737

- Conferences
- Ampere NMR School, Zakopane, Poland, **2019**
(**Grant** winner funded by **Groupement Ampere**)
Poster presentation: Molecular Dynamics and Hyperpolarization Performance of Deuterated β -Cyclodextrins
 - 14th Panhellenic Congress of Nuclear Medicine, Ioannina, Greece, **2014**
 - Summer School of NSRF Democritos, Athens, Greece, **2014** Topics: 1. Hightech Materials, Micro-Nano Technology, 2. Basic Research in Natural Sciences, 3. Environment-Energy-Security, 4. Life Sciences, 5. New Technologies and Cultural Inheritance, 6. Computer Science and Telecommunications
 - 4th Panhellenic Conference of Green Chemistry and Sustainable Development, Ioannina, Greece, **2014**
 - 3rd Hellenic Forum for Science Technology and Innovation of NSRF Democritos, Athens, Greece, **2015**
 - 2nd Hellenic Institute of Nuclear Physics Workshop, Thessaloniki, Greece, **2014**