

PERSONAL INFORMATION

Nikolaos Korakas



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WORK EXPERIENCE

15/05/2016–Present

Research Assistant

Foundation for Research and Technology-Hellas, Heraklion (Greece)

Participation in Projects: An Optical Fiber Sensing System For Simultaneous Measurement Of Pressure And Temperature In Solar Thermal Absorber Tubing (ACTPHAST FP7 Project)

Scholarship: 15/05/2016-20/09/2017 Financed by ACTPHAST FP7 project

EDUCATION AND TRAINING

10/01/2014–20/07/2015

M.Sc. Microsystem and Nanodevices

National Technical University of Athens, Athens (Greece)

Modules included: Statistical physics, Quantum theory of matter and Solid state physics, Physics of semiconductor materials and devices, Microelectronics, Optical and micro optical devices, Micro fluid mechanics, Micro-nano sensors

Oral Presentations:

- Development of a photonic biosensor for food analysis with laser-induced forward transfer (LIFT)
- Photo multiplier tubes
- Diffusion micro fluid filters (H Filters)

M.Sc. Thesis: Development of a micro-ring resonator-based biophotonic system for food analysis with laser-induced forward transfer (LIFT)

Participation in Projects:

- "BIOFOS: Micro-ring resonator based photonic system for food analysis", coordinator Dr. Ioanna Zergioti. (EU FP7 project)

01/09/2006–20/07/2012

B.Sc. Physics Department

University of Crete, Heraklion (Greece)

Coursework included: Knowledge obtained on fields such as: Fluid Mechanics, Physics of Earth interior, Thermodynamics, Circuit Theory, Electrodynamics, Classical Mechanic, Statistical Physics, Quantum Physics. All these provided laboratory experience as well.

PERSONAL SKILLS

Mother tongue(s) Greek

Other language(s)

UNDERSTANDING	SPEAKING	WRITING

	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
First Certificate in English (FCE)					
	B1	B1	B1	B1	B1
Zertifikat Deutsch, Goethe Institut					

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages

Job-related skills

Laboratory Experience:

- Development of laser/optical setups
- Development of: optical fiber sensors, photonic devices with micro-spheres integrated in microstructured optical fibers, Whispering gallery modes setups
- Temperature/strain sensing devices based on Fiber Bragg Gratings (FBGs) inscribed by UV laser radiation
- nanosecond/femtosecond laser exposure of antiresonant optical fibers

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Independent user	Proficient user

Digital competences - Self-assessment grid

Computer:

- MS Word/Excel/Power-point
- Mathematica, Matlab, LabView
- OriginLab
- ImageJ
- Adobe Illustrator, Adobe Photoshop

ADDITIONAL INFORMATION

Conferences

N. Korakas, G. Violakis, S. Pissadaki "A simple magnetic field sensor based on D-shaped optical fiber immersed in ferrofluid" in 5th Workshop on Specialty Optical Fibers and Their Applications

Publications

G. Violakis, N. Korakas, S. Pissadaki "A differential loss magnetic field sensor using a ferrofluid encapsulated D-shaped optical fiber" Optics letters (submitted)