#### PERSONAL INFORMATION



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Date of birth: 05, 01, 1985.

### **WORK EXPERIENCE**

### 2012 - 2015 Research Assistant

Vinca Institute of Nuclear Science (Belgrade)

Laboratory for atomic physics

#### Project: Photonics of micro and nanostructured materials

- Determinaiton of classical optical sensor sensitiivity using Fisher information
- Experimental characterization of fibre bend radius sensor based on Long Period Grating
- Analytical and numerical modelling of Mach-Zehnder interferometer coated with thin dielectric film and its optimization for liquid concentration sensing
- Analytical and numerical modelling of planar optical waveguide coated with thin dielectric film and its optimization for gas concentration sensing
- Implementation of numerical techniques (in Matlab) for mode determination and propagation such as: Finite Difference, FD Beam Propagation Method
- Use of COMSOL software package for modelling of mode formation and propagation along tapered optical fibre

### 2010-2012 Research Assistant

Helmut Schmidt Universität (Hamburg)

Fakultät für Elektrotechnik Experimentalphysik und Materialwissenschaften

#### Project: Evanescent field fiber-optic sensor

- Experimental work: Characterization of nano-layers by prism-coupling technique: thickness, refractive index and damping; prism and fibre polishing; fibre tapering and splicing; evanescent field gas sensor characterization
- Analytical modelling of modes in optical fibers coated with thin dielectric film
- Numerical modelling of mode propagation in pencil shaped fibres (FD-BPM in Matlab)

### 2009-2010 Research Assistant

Vinca Institute of Nuclear Science (Belgrade)

Laboratory for atomic physics

#### Curriculum Vitae

Project: Linear and nonlinear wave propagation in waveguide lattices with lattice period smaller than wavelength

- Characterization of nano-layers by prism-coupling technique: refractive index
- Analytical modelling of Whispering Gallery Modes (WGM)

Project: Physics of complex phenomenon in plasma, condensed matter and nonlinear optics

Analytical derivations of WGM

#### **EDUCATION AND TRAINING**

2009 - 2015 Phd studies

Faculty of Electrical Engineering, University of Belgrade

Group for Nanoelectronics and Photonics

2008-2009 Master studies

Faculty of Electrical Engineering, University of Belgrade

Department of Nanoelectronics, Optoelectronics and Laser Technique

2003-2007 Undergraduate studies

Faculty of Electrical Engineering, University of Belgrade

Department of Physical Electronics

## PERSONAL SKILLS

Language	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	B2
German	B2	B2	B1	B1	B1
	Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  Common European Framework of Reference for Languages				

# Job-related

Programming and technical computing skills:

skills • Matlab, COMSO

Numerical programming methods:

- Finite Difference Method
- Beam Propagation Method

Experimental experience:

• Characterization of Long Period Grating sensors; Characterization of nano-layers by prism-coupling technique: thickness, refractive index and damping; prism and fibre polishing; fibre tapering and splicing; evanescent field gas sensor characterization;

Computer skills

Software

good command of Microsoft Office™ tools and CorelDraw

Other

• teaching assistant in Petnica Science Center (2009-20010)

Activities • participant of Science festival in Belgrade (2009)