

Petra Beličev

Contact:

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Education:

Ph.D. (2012); School of Electrical Engineering, Group for Nanoelectronics and Photonics, University of Belgrade, Belgrade, Serbia

Thesis title: *Propagation of light in complex photonic lattices with saturable nonlinearity*

M.Sc. (2008); School of Electrical Engineering, Department of Nanoelectronics, Optoelectronics and Laser Techniques, University of Belgrade, Belgrade, Serbia

Thesis title: *Analysis and modeling of tunneling times in materials with saturable nonlinearity*

B.Sc. (2007); School of Electrical Engineering, Department of Physical Electronics, University of Belgrade, Belgrade, Serbia

Thesis title: *Analysis of absorption coefficient in metamaterials*

Employment history:

February 2013 - present - Research Assistant Professor, Laboratory of Atomic Physics, Vinča Institute of Nuclear Science, University of Belgrade, Serbia

April 2009 - January 2013 - Research Associate at the Laboratory of Atomic Physics, Vinča Institute of Nuclear Science, University of Belgrade, Serbia

January 2008 - March 2009 - Research Student, Laboratory of Atomic Physics, Vinča Institute of Nuclear Science, University of Belgrade, Serbia

Current fields of interest:

- Nonlinear optics and photonics
 - Numerical and analytical studies of discrete nonlinear systems
 - Solitons and breathers in nonlinear optical systems
 - Fiber optics, fiber-grating sensors
 - Metamaterials
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Projects:

- 2013 - 2017 Management Committee Substitute Member
- COST MP 1204: TERA-MIR Radiation: Materials, Generation, Detection and Applications;
- COST BM 1205: European Network for Skin Cancer Detection using Laser Imaging.
- 2014 - 2016 Participation in the trilateral project Sweden-Chile-Serbia "Control of light and matter waves propagation and localization in photonic lattices" (Swedish Research Council, grant 2013-6752).
- 2011- present Participation in the project "Photonics of micro and nanostructured materials" (Ministry of Education and Science of Serbia).
- 2012 - 2013 Participation in the German-Serbian joint project "Breaking symmetry and all optical light routing in complex photonic lattices" (DAAD 680-00-00095/2012-09/5).

- 2009 - 2010 Participation in the German-Serbian joint project "Linear and nonlinear wave propagation in sub-wavelength waveguide arrays" (DAAD 500243908).
- 2008 - 2010 Participation in the project "Physics of Complex Phenomena in Plasmas, Condensed Matter Physics and Nonlinear Optics", (Ministry of Science and technology of Serbia).
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Trainings and seminars:

2015. - Seminar on Modern analytical methods in art and archaeology, Belgrade, Serbia.
 - International School and Conference on Photonics – PHOTONICA2015, Belgrade, Serbia.
2014. - Seminar on "Contemporary approaches to the conservation of heritage: a combination of art, science and technology", Belgrade, Serbia.
 - International COSCH training school on "Hyperspectral imaging –Techniques applied to the investigation of 2D polychrome surfaces", COST action TD1201, Florence, Italy.
 - International workshop on "Control of light and matter waves propagation and localization in photonic lattices", Linköping, Sweden.
2013. - Italian-Serbian bilateral workshop on "Science for Cultural Heritage", Belgrade, Serbia.
 - Visiting researcher, *Program Aide Position at Texas A&M University at Qatar (TAMUQ)*, Doha, Qatar.
- 2010., 2012. - Nonlinear wave propagation in waveguide lattices with lattice period smaller than wavelength, *German-Serbian Academic Exchange Program*, Hamburg, Germany.
2010. - International summer school in ultrafast nonlinear optics,
 66th Scottish Universities Summer School in Physics, Edinburgh, Scotland.
 - Workshop on "Nonlinear Photonics and Optical Telecommunications", Szczecin, Poland.
2009. - Linear wave propagation in waveguide lattices with lattice period smaller than wavelength, *German-Serbian Academic Exchange Program*, Clausthal, Germany.
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Computing skills:

- Programming and technical computing languages: Matlab, Comsol, Pascal, C, Fortran.
 - Software: MS Office, LaTeX, Corel Draw, Origin, etc.
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Memberships:

- Optical Society of Serbia
 - Society of Physicists of Serbia
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Languages:

Serbian (native), English (fluent), French (basic)

Other activities:

- Secretary of the National organizing committee of the International Year of Light 2015 – IYL2015, Serbia (2015).
- Co-secretary of the Organizing committee of V International School and Conference on Photonics - PHOTONICA2015, Belgrade, Serbia (August 2015).
- Secretary of the Organizing committee of III International School and Conference on Photonics - PHOTONICA2011, Belgrade, Serbia (August 29 - September 2, 2011).
- Secretary of the Organizing committee of the National conference "Photonica 2009 - Theory and experiment in Serbia", Belgrade, Serbia (2009).

- Participation in the popularization of science in Serbia:
 - 2008. and 2009. - Senior Fellow at the Physics Seminar in Petnica Science Center, Petnica, Serbia.
 - 2008. and 2009. - Participant at the Science Festival in Belgrade, Serbia.
 - 2009., 2010. and 2014. - Participant at the manifestation "Open Door Days", Vinča Institute of Nuclear Sciences, Belgrade, Serbia.
 - 2009. - Participant at the project "Vinča za početnike" (*Vinča for beginners*), Vinča Institute of Nuclear Sciences, Belgrade, Serbia.