

Curriculum Vitae

Ana Radosavljević
Research Associate at Vinča Institute of Nuclear Sciences
University of Belgrade, Serbia

Personal Information

Date of birth: 12.05.1988.
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Experience

Visiting Research Student

[Aston Institute of Photonic Technologies](#) | Aston University

Research topic: Femtosecond laser inscription and modeling of gratings and microstructures in optical fibers

November 2014 – December 2014 | Birmingham, UK

Research Associate

[Vinča Institute of Nuclear Sciences, Laboratory for Atomic Physics](#)

December 2013 – present | Belgrade, Serbia

Research Trainee

[Vinča Institute of Nuclear Sciences, Laboratory for Atomic Physics](#)

January 2013 – December 2013 | Belgrade, Serbia

IAESTE Internship

[Helsinki Metropolia University of Applied Sciences](#)

Department for Electronics and Electrical Engineering

October 2012 – November 2012 | Helsinki, Finland

Internship

[Vinča Institute of Nuclear Sciences, Laboratory for Atomic Physics](#)

Research topic: Nonlinear phenomena in photonic lattices

March 2012 – October 2012 | Belgrade, Serbia

Internship

[Institute of Physics Belgrade, Photonics Center](#)

February 2011 – April 2011 | Belgrade, Serbia

Education

University of Belgrade, School of Electrical Engineering and Vinča Institute of Nuclear Sciences

[Doctoral studies in Nanoelectronics and Photonics](#)

2012 – 2015 (3 years)

Doctoral dissertation: "Light propagation in complex systems of coupled waveguides"

University of Belgrade, School of Electrical Engineering

[M.Sc. in Nanoelectronics, Optoelectronics and Laser Techniques](#)

2011 – 2012 (1 year)

Master Thesis: "Analysis of the absorption properties of nanostructures based on cubic GaN/AlGaIn for applications in IR spectral range detection"

University of Belgrade, School of Electrical Engineering

[B.Sc. in Nanoelectronics, Optoelectronics and Laser Techniques](#)

2007 – 2011 (4 years)

Bachelor Thesis: "Fabrication and electronic structure of quantum dots"

First Belgrade High School, Belgrade

[Mathematical-Scientific Department](#)

2003 – 2007 (4 years)

"Vuk Karadžić" award

Skills

Computer: *Design and Simulation:* Matlab, Comsol, Camfr (Python)
Programming Languages: C, Fortran – basic level
Operating Systems: Windows 10, Windows 7, Windows XP
General: MS Office (Word, Excel, Power Point), Mozilla Firefox, Internet Explorer, Adobe Acrobat X Pro
Image-editing: Corel DRAW, Origin, Adobe Photoshop

Languages: Serbian – Native speaker
English – Advanced level
French – Basic level

Current Research Interests

- Localization in complex and nonlinear optical systems
- Numerical and analytical studies of continual and discrete complex optical systems
- Design, modeling and applications of photonic and microfluidic devices
- Femtosecond laser micromachining of photonic and microfluidic devices

Publications

Localized modes in nonlinear binary kagome ribbons, P.P.Beličev, G.Gligorić, [A.Radosavljević](#), A.Maluckov, M.Stepić, R.A.Vicencio, M.Johansson, *Physical Review E* 92, 052916 (2015).

Coherent light propagation through multi-core optical fibers with linearly coupled cores, [A.Radosavljević](#), A.Daničić, J.Petrovic, A.Maluckov, Lj.Hadžievski, *Journal of Optical Society of America B* 32, 2520-2527 (2015).

Light propagation inside 'cavity' formed between nonlinear defect and interface of two dissimilar one-dimensional linear photonic lattices, Slavica Kuzmanović, Marija Stojanović Krasić, Daniela Milović, Marjan Miletić, [Ana Radosavljević](#), Goran Gligorić, Aleksandra Maluckov and Milutin Stepić, *The European Physical Journal D* 69, 207 (2015).

Defect induced wave-packet dynamics in linear one-dimensional photonic lattices, Slavica Kuzmanović, Marija Stojanović Krasić, Daniela Milović, [Ana Radosavljević](#), Goran Gligorić, Aleksandra Maluckov and Milutin Stepić, *Physica Scripta* 90, 025505 (2015).

Manipulation of light beam propagation in one-dimensional photonic lattices with linear refractive index profile, [Ana Radosavljević](#), Goran Gligorić, Aleksandra Maluckov and Milutin Stepić, *Optics Communications* 335, 194–198 (2015).

Optimization of cubic GaN/AlGaIn based quantum wells for application to tunable mid-infrared photodetectors, [A. Radosavljević](#), J. Radovanović, V. Milanović and D. Inđin, *Optical and Quantum Electronics* 47, 865–872 (2015).

Control of light propagation in one-dimensional quasi-periodic nonlinear photonic lattices, [Ana Radosavljević](#), Goran Gligorić, Aleksandra Maluckov and Milutin Stepić, *Journal of Optics* 16, 025201 (2014).

Optimization of cubic GaN/AlGaIn quantum well-based structures for intersubband absorption in the infrared spectral range, [Ana Radosavljević](#), Jelena Radovanović, Vitomir Milanović, *Solid State Communications* 182, 38-42 (2014).

Light propagation management by disorder and nonlinearity in one-dimensional photonic lattices, [Ana Radosavljević](#), Goran Gligorić, Aleksandra Maluckov, Milutin Stepić and Daniela Milović, *Journal of Optical Society of America B* 30, 2340 (2013).

Workshops and Seminars

Spatiotemporal complexity in nonlinear optics, Lake Como School of Advanced Studies, 31 August – 4 September 2015, Como, Italy.

Kickoff Workshop, COST Action 1403 – Nanoscale Quantum Optics, 9 – 10 April 2015, Kolarac, Belgrade, Serbia.

International workshop on Control of light and matter waves propagation and localization in photonic lattices, Linköping University, Department of Physics, Chemistry and Biology (IFM), 6 – 7 August 2014, Linköping, Sweden.

Joint School of Electronic and Electrical Engineering and BM1205 and MP1204 COST Actions Training School in Millimetre Wave, Terahertz and Infrared science and technology and Applications on Sensing and Imaging, University of Leeds, School of Electronic and Electrical Engineering, 14 – 16 July 2014, Leeds, UK.

Light propagation control in photonic lattices, [Ana Radosavljević](#), Goran Gligorić, Aleksandra Maluckov and Milutin Stepić, 7th Photonics Workshop, Kopaonik, Serbia, March 10 – 14, 2014.

Light in disordered media, 546th WE-Heraeus-Seminar, Physikzentrum Bad Honnef, Germany, December 01 – 05, 2013.

Conferences

On high power dynamically stable vortices in multicore optical fibers, A. Radosavljević, A. Daničić, J. Petrovic, A. Maluckov, Lj. Hadžievski, A. Rubenchik and S. Turitsyn, V International School and Conference on Photonics - Photonica 2015, Belgrade, Serbia, 24 – 28 August 2015.

Light propagation in cavity formed by nonlinear defect and interface between two different linear waveguide arrays, Slavica Kuzmanović, Marija Stojanović Kراسić, Daniela Milović, Ana Radosavljević, Goran Gligorić, Aleksandra Maluckov and Milutin Stepić, Advanced Photonics Congress, Crowne Plaza Barcelona Fira Center, Barcelona, Spain, 27 - 31 July 2014.

Light localization in quasi-periodic nonlinear photonic lattices, Ana Radosavljević, Goran Gligorić, Aleksandra Maluckov and Milutin Stepić, IV International School and Conference on Photonics – Photonica 2013, Belgrade, Serbia, August 26 – 30, 2013.

Optimization of planar nanostructures based on cubic GaN/AlGaIn for applications in the IR spectral range, by Genetic Algorithm (Proceedings paper), Ana Radosavljević, Jelena Radovanović, Vitomir Milanović, 20th Telecommunications Forum (TELFOR), Belgrade, Serbia, November 20 – 22, 2012, 1123-26.

The Influence of the Breakdown Electric Field in the Lightning Corona Sheath on the Dynamics of the Return Stroke, J.Cvetić, A.Radosavljević, F.Heidler, R.Đurić, M.Ponjavić, D.Šumarac, Z.Trifković, 31st International Conference on Lightning Protection (ICLP), Vienna, Austria, September 02 – 07, 2012.

Projects

Participation in the project **Photonics of micro and nanostructured materials** | January 2013 – present
Ministry of Education, Science and Technological Development, Republic of Serbia (Project III45010).

Participation in the international project **Control of light and matter waves propagation and localization in photonic lattices**, Trilateral project Sweden-Chile-Serbia, Swedish Research Council, grant 2013-6752.

Participation in collaborative project **Joint research and teaching in photonics with Aston Institute of Photonics Technologies**, Birmingham, UK, 2014-2018.

Participation in **MPNS COST Action MP1204 - TERA-MIR Radiation: Materials, Generation, Detection and Applications**.

Memberships

Optical society of Serbia

Other

Reviewer for The European Physical Journal D and Optical and Quantum Electronics.
Supervision of student internships.

Certificates

Certificate in Advanced English

University of Cambridge, ESOL Examinations, Grade C | June 2013

Adobe Photoshop CS5

“Link Group” professional education for successful career | March 2012

Web design

Youth office of the City Municipality Zvezdara, Belgrade | July 2012