CURRICULUM VITAE OF DANKA STOJANOVIC, PhD, Dipl.-Ing.

Danka B. Stojanović PhD, Senior Research Associate E-mail: dankas@vin.bg.ac.rs
Vinca Institute of Nuclear Sciences, University of Belgrade
Mike Petrovica Alasa 12-14, Belgrade, Serbia

ACADEMIC CAREER

2/2025 - present **Senior Research Associate at the Laboratory of Atomic Physics, Vinča Institute of Nuclear Sciences, Belgrade, Serbia**
Research: Ultrafine particles and source apportionment, Multifractal analysis of cardiac signals, Health effects of air pollution

7/2019 – 2/2025 **Research Associate at the Laboratory of Atomic Physics, Vinča Institute of Nuclear Sciences, Belgrade, Serbia**
Research: Low-cost air pollution sensors, Mobile air pollution monitoring, Development of algorithms for mobile ECG devices, Tunable chiral metamaterials

10/2019 – 1/2020 **Temporary Postdoctoral Research Associate in the Science Program at Texas A&M University at Qatar, Doha, Qatar**
Research: Numerical simulations of metamaterials and metasurfaces

6/2013 – 7/2019 **Research Assistant at the Laboratory of Atomic Physics, Vinča Institute of Nuclear Sciences, Belgrade, Serbia**
Research: Chiral metamaterials in Thz frequency range

12/2012 – 6/2013 **Junior Research Assistant at the Laboratory of Atomic Physics, Vinča Institute of Nuclear Sciences, Belgrade, Serbia**
Research: Self-assembled photonic structures, Spectroscopic ellipsometry

6/2011 – 10/2012 **Master student at Center for Solid State Physics and New Materials, Institute of Physics, Belgrade, Serbia**
Research: Graphene exfoliation, Raman spectroscopy

7/2010 – 9/2010 **Bachelor student (IAESTE internship) at Department of physics, University of Duisburg-Essen, Duisburg, Germany**
Research: Chemical vapor deposition, graphene, Raman spectroscopy

INNOVATION AND TECHNOLOGY TRANSFER

5/2022 – present **Technical consultant, HeartBeam Inc., US**
Responsibilities: Publications manager, development of mobile ECG device

EDUCATION

11/2012-7/2018 **PhD student at Department of Physical Electronics, School of Electrical Engineering, University of Belgrade, Serbia**
Thesis title: "Propagation of electromagnetic waves through chiral metamaterials in terahertz frequency range"

11/2011 – 7/2012 **Master student at Department of Physical Electronics, School of Electrical Engineering, University of Belgrade, Serbia**

Thesis title: "Analysis of Raman spectra of graphene"

6/2006 – 5/2011 **Bachelor student at Department of Physical Electronics, School of Electrical Engineering, University of Belgrade, Serbia**
Thesis title: "Synthesis and characterization of graphene films"

PROJECT PARTICIPATION

2024-2028 Participation in COST action CA23139 –Network for Indoor Air Cleaning (Net4CleanAir)
2023-2025 Participation in Webacoon Horizon Europe project „Reinforcing in the Western Balkans in Offline and Online Monitoring and Source Identification of Atmospheric Particles“
2022-2023 Participation in bilateral Serbia-India project: ‘’Design of metamaterials for biosensing and ICT applications“
2022-2024 Participation in bilateral Serbia-Turkey project: „Tunable Graphene Based Chiral Metamaterial for Terahertz Wave Polarization Modulation “ as Serbian side team lead
2021-2024 Participation in VIDIS Horizon 2020 project: „Virtual center for distributed atmospheric sensing for reduction of pollution pressures“
2021-2022 Participation in open call Novi Sad 2021: ‘’Spatio-temporal variation of respirable particles level in urban area of city of Novi Sad- mobile monitoring, modelling and creation of high resolution maps’’
2021-2023 Participation in UNICEF project: ‘’Development and implementation of calibration and QA/QC procedures for low-cost sensors network under UNICEFs Serbia pilot initiative -Schools for better air quality’’
2019-2023 Participation in COST action CA18223 – Future communications with higher-symmetric engineered artificial materials, as MC substitute
2012- 2020 Participation in project of Ministry of Education, Science and Technological Development, Republic of Serbia (Project III45005): ‘’Functional, functionalized and advanced nanomaterials’’
2017- 2018 Participation in the bilateral project Serbia-Montenegro: “Surface enhanced Raman spectroscopy as a method for monitoring the concentration of inorganic nutrients in sea water”
2016-2017 Participation in the bilateral project Serbia-Croatia: “Nanostructured carriers for the controlled release of flavonoids as potential therapists for the treatment of Alzheimer's disease”

PEER REVIEW

- A reviewer for the following international journals: Physical Review A, Journal of Optics, Optical and Quantum Electronics, Journal of Physics D: Applied Physics, Physical Review Materials, Physical Review Applied, Sensors, Photonics Technology Letters, Air.

CONFERENCE COMMITTEE SERVICE

- A member of organizing committee of the 9th and 10th international workshop and conference, particulate matter: research and management Webiopatr 2023 and Webiopatr 2025.
- A member of organizing committee of the 7th international conference and summer school *"7th International School and Conference on Photonics – PHOTONICA2019"*, held in Belgrade in 2019.

OTHER

- A member of the Optical Society of Serbia.
- A guest editor for the international journal Optical and Quantum Electronics.
- The editor of Book of abstracts for conferences Webiopatr 2023 and Webiopatr 2025.
- Work with PhD students on their thesis.