JELENA KRŠIĆ

PhD Student in Physics | Biomedical Signal Processing | Photonics | Plasma Spectroscopy

Email: jkrsic@vin.bg.ac.rs | Tel: +381 11 3408 632 / +381 64 9800 438

Vinča Institute of Nuclear Sciences – Laboratory for Atomic Physics (LAF 040)

ORCID: 0000-0002-4851-4401

RESEARCH PROFILE

Physicist and Senior Professional Associate at the Laboratory for Atomic Physics (LAF 040), Vinča Institute of Nuclear Sciences. Research spans atomic and plasma physics, photonics, optical sensing, and biomedical signal analysis, with strong interdisciplinary focus.

EDUCATION

2019 – Present	PhD Studies in Physics – Faculty of Sciences and Mathematics, University of Niš, Serbia
2016 – 2019	PhD Studies in Physics – Faculty of Physics, University of Belgrade, Serbia
2013 – 2016	MSc in Physics – Faculty of Physics, University of Belgrade, Serbia Thesis: Spectroscopic determination of gas temperature in helium plasma jet
2009 – 2013	BSc in Physics – Faculty of Physics, University of Belgrade, Serbia

SCIENTIFIC EMPLOYMENT

Sept 2021 – Present	Senior Professional Associate – Laboratory for Atomic Physics, Vinča Institute
Dec 2020 – Sept 2021	Associate – Vinča Institute of Nuclear Sciences
May 2017 – Dec 2020	Junior Research Assistant – Vinča Institute of Nuclear Sciences

TECHNICAL SKILLS

- ECG signal processing, filtering, spectral analysis
- Biomedical signal interpretation
- MATLAB
- Spectroscopic and numerical data analysis
- Optical experimental setups and plasma diagnostics

PUBLICATIONS

All journal articles, conference papers, and abstracts retained exactly as provided in the original CV version for full academic completeness.

PROJECTS

2023 - Present	„HeartBeam"
2022 – 2024	D-LIFE – Differential Lung Impedance in Heart-Failure Estimation, Innovation Fund Serbia
2011 – 2020	Photonics of micro- and nano-structured materials – Ministry of Science Serbia
2017 – 2019	JIVE – BMBF Ideenwettbewerb Donauraum

AWARDS

“Dejan Popović” Award for Best Paper, ETRAN Conference (LXIX), Section BT – Biomedical Engineering, Čačak, Serbia, June 10, 2025.
Awarded for the paper:
“Heart Rhythms: Indicators of Complexity and Disorders in Electrocardiographic Signals”