CURRICULUM VITAE

dr Mirjana Stojanović

Research Associate
Vinča Institute of Nuclear Sciences National Institute of the Republic of Serbia, University of Belgrade
Mike Petrovica Alasa 12-14, Belgrade, Serbia
email: mirjana.stojanovic@vin.bg.ac.rs
ORCID: 0000-0002-4376-7610

EDUCATION

Ph.D. in Physics, 2023
Faculty of Natural Sciences and Mathematics, University of Niš, Serbia
Doctoral thesis: *Localized Structures in Nonlinear Flatband Lattices in the Linear Regime*

M.Sc. in Physics, 2018
Faculty of Natural Sciences and Mathematics, University of Niš, Serbia
Master thesis: *Model of Axon Electrical Conductivity*

B.Sc. in Physics, 2012/2013
Faculty of Natural Sciences and Mathematics, University of Niš, Serbia

ACADEMIC AND RESEARCH EMPLOYMENT

2024 -, Research Associate, Laboratory of Atomic Physics, Vinča Institute of Nuclear Sciences National Institute of the Republic of Serbia, University of Belgrade

2022 - 2024, Senior Research Assistant, Laboratory of Atomic Physics, Vinča Institute of Nuclear Sciences National Institute of the Republic of Serbia, University of Belgrade

2019 - 2022, Junior Research Assistant, Laboratory of Atomic Physics, Vinča Institute of Nuclear Sciences National Institute of the Republic of Serbia, University of Belgrade

RESEARCH INTERESTS

- Photonic lattices and flatband systems
- Linear and nonlinear localized modes
- Nonlinear dynamics in optical lattices
- Biomedical engineering

PROJECT PARTICIPATION

National Projects

- *Photonics of Micro- and Nano-Structured Materials*
  Ministry of Science of the Republic of Serbia (2011–2020)
- *DIfferential Lung Impedance in Heart-Failure Estimation (D-LIFE)*
  Innovation Fund of the Republic of Serbia (2022–2024)
- *Multi-Sensor System and Artificial Intelligence in Service of Heart Failure Diagnosis (SensSmart)*
  Science Fund of the Republic of Serbia – IDEAS Programme

Bilateral Projects

- *Optical Transitions in Photonic Lattices* (Serbia–Germany)
  Project No. 451-03-01732/2017-09/15 (2019)

Industry Collaboration

- **HeartBeam, Inc. (USA)** – Technical and Clinical Measurements Lead

SELECTED SCIENTIFIC PUBLICATIONS

1. **M. G. Stojanović**, et al., *Localized modes in linear and nonlinear octagonal-diamond lattices with two flat bands*,
   Physical Review A, 102 (2020), 023532.
2. **M. G. Stojanović**, et al., *Nonlinear compact localized modes in flux-dressed octagonal-diamond lattice*,
   Physica Scripta, 97 (2022), 030006.
3. **M. Stojanović Krasić**, **M. Stojanović**, et al., *Localized modes in a two-dimensional lattice with a pluslike geometry*,
   Physical Review E, 102 (2020), 032207.
4. A. Mančić, **M. G. Stojanović**, et al., *Linear compact localized modes in flux-dressed two-dimensional plus lattice*,
   Advanced Technologies, 2022.
5. **M. G. Stojanović**, et al., *Shaping the dynamics of Aharonov–Bohm caged localized modes by nonlinearity*,
   Facta Universitatis, Series: Physics, Chemistry and Technology, 20 (2022), 55–65.
6. **M. G. Stojanović**, P. Vildoso, K. Bugarski, P. M. Parra, A. Maluckov, R. A. Vicencio, J. Petrović, J. Opt. 27 (2025), 055801.