

CURRICULUM VITAE OF JOVANA PETROVIC, PhD, Dipl.-Ing.

Jovana Petrovic, PhD, Research Professor
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ACADEMIC CAREER

- 10/2021 – present **Research Professor, Vinca Institute, Belgrade, Serbia**
Responsibilities: R&D project management, teaching and supervision
R&D: Sensing, sensor integration, photonic integration, medical diagnostics
- 10/2020 – 09/2021 **Guest Lecturer, TU Berlin, Germany**
Responsibilities: Teaching at undergraduate and postgraduate levels
- 11/2018 – 04/2020 **Laser Scientist/Engineer, DESY, Hamburg, Germany**
Responsibilities: Optical instrumentation for molecular physics
- 02/2017 – 11/2018 Maternity leave
- 02/2013 – 02-2017
 08/2011 – 01/2013 **Associate Research Professor, Vinca Institute, Belgrade, Serbia**
Assistant Research Professor
Responsibilities: R&D project coordination, building of sensor fabrication and testing laboratories, student supervision
R&D: Fibre-optic sensing for medical diagnostics, integrated optics
- 02/2010 – 07/2011 **Postdoc, European Laboratory of Nonlinear Spectroscopy, Florence, Italy**
R&D: High-precision interferometric sensors based on cold atoms on chip
- 10/2007 – 11/2009 **Postdoc, Department of Physics, University of Oxford, UK**
Responsibilities: Team leader
R&D: Optical instrumentation for synthesis and measurement of ultracold molecules
- 10/2006 – 09/2007 **Postdoc, Aston University, Birmingham, UK**
R&D: Direct laser writing of microfluidic sensors in optical fibres

ENTERPRENEURSHIP

- 10/2022 – present **Technical consultant, HeartBeam Inc., US**
- 09/2015 – 08/2016 **Responsibilities:** R&D team leader, algorithm development for mobile ECG
- 01/2022 – present **Technical consultant, Intermedic Group, Serbia**
Responsibilities: Project coordination, development of telemedical devices
- 02/2012 – 11/2018 **Chief Technology Officer, Diasens Ltd., Serbia**
Responsibilities: R&D team lead, device design, laboratory and clinical testing

EDUCATION

- 10/2008 – 12/2009 **Qualification for Teaching in Higher Education, University of Oxford, UK**
- 11/2002 – 11/2006 **Ph.D. in Photonic sensors,**
Aston University, Aston Institute of Photonic Technologies, UK
 Thesis on design and fabrication of fibre-optic gratings (advisor V. Mezentsev)
- 10/1997 – 07/2002 **Dipl.-Ing., School of Electronic Eng., University of Belgrade, Serbia**
 Thesis on Quantum Cryptography, GPA 96.8%

RESEARCH CONTRIBUTIONS

46 research papers (in Nature, J. Lightwave Technology, IEEE, etc.), 3 book chapters, 24 invited talks
1350 citations, h=16

TEACHING**Doctoral school courses:**

- Photonic sensors with practicum, Faculty of Physics, University of Belgrade, 2016 – present
- Integrated and fibre-optic sensors, University of Belgrade, 2015 – present
- Optical fibre sensors and applications, Berlin School of Optics and Quantum Technologies (BOS.QT), WS 2020/2021

Undergraduate courses and practica:

TU Berlin, Fakultät II - Mathematik und Naturwissenschaften

- Experimental Physik VI, SoSe 2021
- Fortgeschrittene Praktikum, 2020-2021
- Grundpraktikum, WS 2020-2021

SUPERVISION

- **Thesis supervision/co-supervision of 5 PhD and 2 MSc**, students, University of Belgrade
- **Supervision of 4 postdocs**, Vinca Institute, University of Belgrade
- **Technical supervision** of 4 DPhil students, University of Oxford

THIRD-PARTY FUNDING ACCRUED AS PI

2022 – 2024	Differential Lung Impedance in heart-Failure Estimation (D-LIFE), Innovation Fund, Serbia, 426 710 EUR (Principal Investigator (PI))
2022 – 2025	Multi-SENSor System and ARTificial intelligence in service of heart failure diagnosis (SensSmart), Science Fund, Serbia, 252 000 EUR (PI)
2016 – 2021	International Mobility and Training in Photonics programme (MULTIPLY), H2020-MSCA-COFUND-2015, 3 186 000 EUR (Deputy PI Serbia)
2011 – 2020	Photonics of micro- and nano-structured materials, Ministry of Science, Serbia, 3 700 000 EUR (Deputy PI in charge of all experiments)
2017 – 2020	Development and Regulation of the Univ. of Belgrade Laser-Laboratory Infrastructure for Education and Research, CEI Know-How Exchange, 39 900 EUR (PI for Serbia)
2017 – 2019	Joint Invention, Visibility and Excellence (JIVE), BMBF Ideenwettbewerb Donauraum, 78 000 EUR (PI for Serbia)
2013 – 2016	COST Action MP1205, Advances in Optofluidics: Integration of Optical Control and Photonics with Microfluidics (Management Committee Member)
2013 – 2015	Multi-State Atom Interferometers, Bilateral project Serbia – Italy (PI for Serbia)

PROJECT PARTICIPATION

2016 - 2019	Capturing and quantitative analysis of multi-scale multi-channel diagnostic data (CARDIALLY), H2020-MSCA-RISE-2015 (Proposer / key scientist)
2016 – 2019	THz driven dynamics in perovskites, FLASH, DESY (Proposer)
2019 – 2020	Conformer interconversion dynamics of complex molecules, XFEL (Proposer)
2010 – 2011	Nano Optics for Molecules on Chips (CHIMONO), FP7-ICT (Researcher)
2007 – 2009	Coherent Control of the formation of ultra-cold molecules, EPSRC, UK (Team leader)
2006 – 2007	Technology Programme Fs Machining FIMA, UK (Researcher)

PROJECT EVALUATION AND MONITORING

FP7/HORIZON2020/HORIZON EUROPE, European Commission

> 130 proposals reviewed, 5 projects monitored

- Monitor and evaluator of EIC Transition projects, 2021 - present
- Expert evaluator, HORIZON2020-MSCA, 2018 – present
- Monitor, panel member, vice-chair, expert evaluator, FET-OPEN, 2012 – 2020

COMMITTEE SERVICE

- Program Committee, Int. Symposium on Photonics and Optoelectronics, China, 2022 - present
- Vinca institute and Institute of Physics Belgrade, W1/W2 selection committees, 2014 - present
- Thesis defence committee, University of Belgrade, 2012 - present
- Postdoc selection committee, CFEL, DESY, 2019
- HORIZON2020:FET Panelist, 2012-2017
- Scientific Committee, PHOTONICA 2015, 2017, 2019
- Organization Committee, PHOTONICA 2011, 2015 and ICOM 2012
- Vinca Institute Scientific Council, 2013-2014
- Vinca Institute Physics Council, 2014-2016
- Deputy for photonics, Society of Physicists, Serbia, 2014-2016

PEER REVIEW

- 15 journals published by OSA, Nature/Springer, AOP, IOP, Elsevier

PERSONAL AWARDS AND GRANTS

- Optical Society of America Senior Member, 2022
- Berliner ChancengleichheitsProgramm, Gastdozentur, TU Berlin, Germany, 2020
- Stephenson Distinguished Visitor Programme, DESY, Hamburg, Germany, 2016
- Scaling of sensitivity of a multi-state atom-chip interferometer, LENS, Laserlab Europe, 2014
- L'Oreal For Women in Science Scholarship, Serbia, 2011
- Aston University Colours for Exceptional Committee Service, 2006
- Overseas Research Student Award, UK Government, 2003 - 2005
- Scholarship for young talents, City Council of Krusevac, Serbia, 1996 – 2003
- Norwegian Embassy Award to the best student in the class, Serbia, 2002
- The Best Student Award, School of Physical Electronics, Univ. of Belgrade, 2002
- Scholarship for young talents, City Council of Krusevac, Serbia, 1996 – 2002