Vladislava Bobić

Date of birth: **11. 10. 1991.**
Place of birth: **Belgrade, Serbia**
E-mail contact: **vladislava.bobic@ic.etf.bg.ac.rs**

Education

2015 –

PhD studies
School of Electrical Engineering, University of Belgrade
Department for System Control and Signal Processing, Biomedical Engineering
Research area: Clinical and rehabilitation engineering
Supervisor: Prof. dr Mirjana Popović

2014 – 2015

Master degree studies
School of Electrical Engineering, University of Belgrade
Module: Biomedical Engineering
GPA: 10,00
MSc Thesis: "Quantitative assessment of motoric pattern of finger tapping test in patients with motor disabilities"
Supervisor: Prof. dr Mirjana Popović

2010 – 2014

Undergraduate studies
School of Electrical Engineering, University of Belgrade
Department for Physical Electronics
Section: Biomedical Engineering
GPA: 9,33
BSc Thesis: "Analysis of EEG signals recorded during functional electrical stimulation"
Supervisor: Prof. dr Mirjana Popović

2006 – 2010

9th Belgrade high school "Mihailo Petrović Alas"

Work experience

2015 –

Research assistant at Innovation Center of School of Electrical Engineering, University of Belgrade, Serbia

- Research related to clinical and rehabilitation engineering, development of new methods for signal processing and support to diagnostics and therapy,
- Clinical work at the Neurology Clinic, Clinical center of Serbia (studies with patients with neurodegenerative disorders)
- Clinical work with the Rehabilitation clinic "Dr Miroslav Zotovic" (studies with patients with stroke)

2016 –

Project development assistant at Innovation Center of School of Electrical Engineering, University of Belgrade, Serbia

- Assisting in design, organization, and delivering project proposals and their administration (national and international projects – H2020, EUREKA, IPA, IFCD, and others)
- Assisting and participating in all activities related to promotion of science, innovations, and inter-institutional collaboration

Projects

2013 – 2014	**"Shoe Sense – Gait Analysis study related to different types of footwear and its impact to posture and gait pattern"**, Innovation Center of School of Electrical Engineering, University of Belgrade, PI: dr Milica Đurić - Jovičić.
2014 – 2015	**"System for interactive therapy and evaluation of children with autism"**, National project funded by Serbian Ministry of Education, Science and Technological Development, Innovation project, MPNTR, PI: Prof. dr Boško Nikolić.
2015 – 2016	**"Motor and non-motor symptoms of Parkinsonism: clinical, morphological and molecular-genetic correlations"**, National project funded by Serbian Ministry of Education, Science and Technological Development, Fundamental research project grant #175090 MPNTR, PI: Prof. dr Vladimir Kostić.
2016 – 2017	**"HUBTECS – Feasibility study for establishing regional digital manufacturing innovation hub for I4MS technologies**", for Western Balkans, funded under Horizon2020 research and innovation programme, grant #680734, 2016-2017.
2016 –	**"The effects of assistive systems in neurorehabilitation of sensory-motor systems"**, National project funded by Serbian Ministry of Education, Science and Technological Development, Fundamental research project grant #175016 MPNTR, PI: Prof. dr Mirjana Popović.

Publications

International conferences:

1. M. D. Djuric-Jovičić, **V. N. Bobić**, M. Ječmenica-Lukić, I. N. Petrović, S. M. Radovanović, N. S. Jovičić, V. S. Kostić and M. B. Popović, "Implementation of continuous wavelet transformation in repetitive finger tapping analysis for patients with PD," *Proc of the 22nd Telecommunications Forum, TELFOR 2014,* Belgrade, Serbia, 25-27 November, 2014, pp. 541-544.
2. M. Djurić- Jovičić, M. Ječmenica-Lukić, I. Petrović, S. Radovanović, N. Dragašević, **V. Bobić**, M. Belić and V. S: Kostić, "Quantitative finger tapping assessment based on inertial sensors-assistance in differential diagnostics of parkinsonism," *Abstracts of the 1st Congress of the European Academy of Neurology*, Berlin, Germany, June 2015, pp. 344.
3. **V. N. Bobić**, M. D. Djurić-Jovičić, N. Jarrasse, M. Ječmenica-Lukić, I. N. Petrović, S. M. Radovanović, N. Dragašević and V. S. Kostić, "Frequency analysis of repetitive finger tapping – extracting parameters for movement quantification," *Proc of the 3rd International Conference on Electrical, Electronic and Computing Engineering*, Zlatibor, Serbia, 13-16 June, 2016, pp. MEI2.2. 1-5.
4. V. Milanović, S. Nikolić, F. Rajičić, **V. Bobić**, M. Djurić-Jovičić, M. Đorđević, N. Dragašević, M. Cvetanović and B. Nikolić, "aKomunikator: a mobile application for augmented communication of autistic children," *Proc of the 3rd International Conference on Electrical, Electronic and Computing Engineering*, Zlatibor, Serbia, 13-16 June, 2016, pp. TEI1.3. 1-4.
5. M. Roglić, **V. Bobić**, M. Djurić-Jovičić, M. Djordjević, N. Dragašević and B. Nikolić, "Serious gaming based on Kinect technology for autistic children in Serbia" *Proc of the 13th Symposium on Neural Networks and Applications, Neurel 2016,* Belgrade, Serbia, 22-24 November, 2016, pp. 39-42.
6. **V. Bobić**, P. Tadić and G. Kvaščev, "Hand gesture recognition using neural network based techniques" *Proc of the 13th Symposium on Neural Networks and Applications, Neurel 2016,* Belgrade, Serbia, 22-24 November, 2016, pp. 35-38.
7. **V. Bobić** and S. Graovac, "Development, implementation and evaluation of new eye tracking technique" *Proc of the 24th Telecommunications Forum, TELFOR 2016,* Belgrade, Serbia, 22-23 November, 2016, pp. 372-375.

Publications	
National journals:	1. **V. Bobić**, M. Djurić-Jovičić, N. Jarrasse, M. Ječmenica-Lukić, I. N. Petrović, S. M. Radovanović, N. Dragašević and V. S. Kostić, "Spectral parameters for finger tapping quatification", *Facta Universitatis, Series: Electronics and Energetics*, vol. 30, no. 4, pp. 585-597, 2017. 2. **V. Bobić** and S. Graovac, "Simple and precise commercial camera based eye tracking methodology" *Telfor Journal*, vol. 9, no. 1, 2017, pp. 49-54.
Awards	
2014	**Best student** from the Department for Physical Electronics, Module: Biomedical engineering, in the school year 2014/2015, award given by School of Electrical Engineering, University of Belgrade.
2014	**Best student** from the Department for Physical Electronics, Module: Biomedical engineering, in the school year 2014/2015, award given by Siemens Company Ltd.
2016	**Best paper per section** award, 3rd International Conference on Electrical, Electronic and Computing Engineering, Zlatibor, Serbia, 13-16 June, 2016. Paper: *"Frequency analysis of repetitive finger tapping – extracting parameters for movement quantification".*
Scholarships	
2011 – 2013	"Scholarship for students of higher education institutions", funded by Serbian Ministry of Education, Science and Technological Development.
2013 – 2015	"Scholarship for exceptionally gifted students", funded by Serbian Ministry of Education, Science and Technological Development.
2015 – 2016	"Scholarships for PhD students", funded by Serbian Ministry of Education, Science and Technological Development.
Skills	
	Digital signal and digital image processing (advanced), Programming and databases (medium), Statistical analysis (medium) Tools: Matlab, LabView, MySQL, SPSS, Microsoft Office
Languages	
	English (advanced, fluent) French (medium) Spanish (basic)

Contact persons for recommendation	
	Prof. dr Mirjana Popović, Professor of Biomedical Engineering at School of Electrical Engineering, University of Belgrade, Professor at the University of Belgrade – Biomedical Engineering and Technologies, and Principal Research Fellow at the Institute for Medical Research e-mail: mpo@etf.rs **Prof. dr Vladimir Kostić**, Professor of Neurology, Medical faculty, University of Belgrade, Serbia, Professor at the University of Belgrade – Biomedical Engineering and Technologies, and President of the Serbian Academy of Sciences and Arts, e-mail: vladimir.s.kostic@gmail.com **Dr Milica Đurić-Jovičić**, Director at Innovation Center of School of Electrical Engineering, University of Belgrade, Serbia, e-mail: milica.djuric@etf.rs