

Jelena Ristić

Curriculum Vitae

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Education

2018-present **Undergraduate studies at School of Electrical Engineering**, University of Belgrade
Program title: Electrical Engineering and Computing
Module: Signals and Systems
Anticipated Graduation: September 2022
Current GPA: 9.78/10

2014-2018 **Mathematical Grammar School**, Belgrade, Serbia
Honours mentored class of top twenty students
GPA: 5.0/5.0

Summer Schools and Seminars

August 2019 **Summer School of Machine Learning (PSI:ML5)**, Petnica Science Institute, Valjevo, Serbia
An intensive ten-day seminar organized by Microsoft Development Center Serbia. Attended all-day courses and workshops in Tensorflow on the topics of machine learning basics, unsupervised learning, convolutional neural networks, recurrent neural networks, random forests, etc. Did a project in the field of deep learning.

2014-2018 **Physics Seminars**, Petnica Science Institute, Valjevo, Serbia
Attended four seminars per year, featuring many lectures and workshops. Gained experience in working on annual projects, writing scientific papers and presenting them at annual conferences.

Projects

2019 **Vision in the Dark**, Summer School of Machine Learning, Petnica Science Institute
*Implemented a model for lightening short-exposure images taken in low light. Trained fully-connected convolutional network U-net on open source See-in-the-Dark (SID) dataset using **Keras API in Python**. Was two person project.*

2017 **Influence of Dipol-Dipol Interaction on Fermi Surface**, Petnica Science Institute
*Numerically implemented a mathematical model in **MATLAB** describing quantum properties of Erbium gas at low temperatures. Was two person project.*

2017 **Planetary Motion Simulation**, Mathematical Grammar School
*Was part of a team project with focus on object-oriented programming. Implemented a N body simulation in **C#** with the aim to simulate the motion of planets. Provided a user interface for modifying the number of planets, their position and initial velocities.*

2016 **Detection of the Higgs Boson Decay using Machine Learning Methods**, Petnica Science Institute
*Distinguished particular Higgs decay events from background events using machine learning techniques. Used the TMVA package (Toolkit for Multivariate Data Analysis) **in C** to train different kinds of classifiers to discriminate between the signal and backgrounds.*

Experience

- 2018-present **Junior Associate - Physics Seminars**, Petnica Science Institute, Valjevo, Serbia
Enhanced presentation skills through multiple lectures and workshops on the topics of physics, programming and mathematics presented to high school students.
- 2018-2019 **Teaching Assistant**, Mathematical Grammar School, Belgrade, Serbia
Held an 8-month course for preschool kids, which was meant to be their first contact with mathematics. Worked on developing their problem-solving skills through various creative tasks.

Awards and Certificates

- 2016-present **Scholarship for Exceptionally Talented Students**, Serbia
Selected by Ministry of Education, Science and Technological Development of the Republic of Serbia for maintaining academic success throughout the years.
- June 2018 **Best Final-Year Project in Area of Physics**, Mathematical Grammar School
The project discussed the theory behind particle physics.
- May 2018 **Certificate in Advanced English**, Belgrade
Cambridge Assessment English, Council of Europe Level C1
- 2015-2017 **Serbian High School Competition Awards**, Serbia
Two 2nd and one 3rd award in national physics competitions.

Skills

- Computing** Academic experience in C, C++, C#, Algorithms, Data Structures, Problem Solving, Object-oriented programming, Haskell, SQL
- Experience gained through projects in Python, Machine Learning, Keras, MATLAB, \LaTeX
- Other** Strong Mathematical Background, Teaching