

## Personal info

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Date of birth: 20.12.1994.

E-mail: mail@lzivadinovic.com

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Github: github.com/lzivadinovic

## Education

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**University of Belgrade, Faculty of Mathematics, Department of Astronomy**

*Major in Astronomy and Astrophysics*

**Belgrade, Serbia**

*2013 – present*

**University of Belgrade, ICT college of applied studies**

*Major in Internet technologies*

**Belgrade, Serbia**

*2019 – present*

**Gymnasium "General gymnasium - Kruševac"**

*Natural Science class*

**Kruševac, Serbia**

*2009 – 2013*

## Publications and Conference Proceedings

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**Density profile of Milky Way: Comparison of dynamical model and Monte Carlo method for determining stellar space densities:**

**Živadinović L., Milošević S., Milić D.** Serbian astronomical conference; Belgrade; Serbia; 2017; In preparation

**Temperature distribution in Solar active region:**

**Živadinović. L.;** Mentored by Milić I.; Proceedings of the 12<sup>th</sup> Petnica's annual conference; Petničke sveske; Petnica Science Center, Serbia; 2013;

## Work and Research Experience

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**ITEkako D.O.O.**

*Dev-Ops*

**Belgrade, Serbia**

*May 2017. - present*

- Work with continuous integration/continuous delivery tools
- Work with configuration management tools
- Hardware, VPS and network maintenance
- Monitoring and alerting systems

**Astronomical Institute of the Czech Academy of Sciences**

*Research Internship at SDSA group*

**Ondrejov, Czech Republic**

*21<sup>st</sup> July - 11<sup>th</sup> August, 2019*

- Research subject: ***Timeseries of magnetic field propertis in active region in solar photosphere from creation to decay***  
Mentored by PhD Jan Jurcak
  - Pipeline for reduction and analysis of SDO/HMI SHARP datasets
  - Development of sunspot/pore detection and tracking algorithms

**Max Planck Institute For Solar System Research**

*Research Internship at SLAM gropu*

**Göttingen, Germany**

*4<sup>th</sup> July - 5<sup>th</sup> September, 2016*

- Research subject: ***Time series of photospheric Poynting flux*** mentored by PhD Pradeep Chitta
  - Rate of change of photospheric poynting flux induced by horizontal photospheric motions
  - Analysis of SST/CRISPEX spectropolarimetric data

**Petnica Science Center**

*Junior Teaching Assistant*

**Valjevo, Serbia**

*2014-Present*

- Teaching assistant in astronomy department
  - Organization of seminars for high school students
  - Various lectures for high school students (calculus, statistics, error analysis, observational data reduction, solar physics, programming and scientific computing...)
  - Building 80cm radio telescope
  - Monte Carlo Radiative Transfer simulation of sunset and detectability of cyanobacteria in exoplanets atmospheres
  - Analysis of magnetic field in sunspot based on Fe I line pair and V stokes parameter
  - DSLR photometry on Delta Scutti variable stars
  - Data reduction pipeline for DSLR photometry
  - Maintenance of computation server

## Petnica Science Center

Valjevo, Serbia

Participant and presenter at annual conference "Step into science"

2012-2013

- Research subject: **Temperature distribution in Solar active region** mentored by Milić, I.
  - Data reduction of HINODE/SOT BFI data of Solar active region using SolarSoft library
  - Using MARCS synthetic stellar spectra for comparing intensities with reduced data from HINODE/SOT

## Other relevant experiences, schools and workshops

### 10<sup>th</sup> Student astronomical workshop (SAR)

Novi Sad, Serbia

Talk on, "Poynting flux derived from photospheric motions"

18<sup>th</sup> November 2017

### Advanced data mining with the Sloan Digital Sky Survey

Belgrade, Serbia

Workshop on databases structures and their usage in astronomy

9<sup>rd</sup> - 11<sup>th</sup> July 2017

### Observational school, SVAP 2017

Prokuplje-Belgrade, Serbia

3 day education course on "AS Vidojevica" and remote observation with 60cm RC telescope

1<sup>st</sup>-6<sup>th</sup> June 2017

Remote observation, photometry and data reduction

### 9<sup>th</sup> Student astronomical workshop (SAR)

Belgrade, Serbia

Talk on, "Temperature distribution in Solar active region and image reconstruction techniques"

23<sup>rd</sup> April 2016

### Observational school, SVAP 2016

Prokuplje, Serbia

4 day education course on "AS Vidojevica" and usage of 60cm RC telescope

1<sup>st</sup>-4<sup>th</sup> April 2016

Photometry and data reduction

### Dom Omladine Beograda

Belgrade, Serbia

Astronomy school for high school student

May, 2014 - May, 2015

- Lecturer and part of organization team

### Summer schools

Participant

- **Summer school of Astronomy and Astrophysics** - Petnica Science Center, Valjevo (24. July - 2. August, 2015.)
- **Scientific computer seminar** - Petnica Science Center, Valjevo (May 2013)

## Computer skills

**Proficient in:** Python (scientific modules) and IDL, Linux, bash shell scripting

**Intermediate knowledge of:** Ansible, cloud-init, nginx/apache2, postgresql

**Scientific Software:** IRAF/PyRaf, MaximDL, Origin/QtiPlot, SAODS9, L<sup>A</sup>T<sub>E</sub>X

## Research interest

- Dynamics of Solar atmosphere
- Spectropolarimetric inversion
- Image reconstruction
- Instrumentation

## Languages

- **Serbian:** Native speaker

- **English:** Fluent

## Interests

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- Musical instruments and music
- Graphic novels/comic books
- Cooking
- Mountaineering

Last update, August 13, 2019