

# Lazar Živadinović | Curriculum Vitae

Marka Oraškovića 52/2, 11000 Beograd, Serbia

☐ +381643769053 • ☐ mail@lzivadinovic.com

#### **Personal info**

Date of birth: 20.12.1994. Github: Izivadinovic Drivers license: A1, B

#### Education

University of Belgrade, Faculty of Mathematics, Department of Astronomy

Belgrade, Serbia 2013 – present

Major in Astronomy and Astrophysics Undergraduate

2013 – present

2009 - 2013

Gymnasium "General gymnasium - Kruševac"

Kruševac, Serbia

Natural Science class

#### **Publications and Conference Proceedings**

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

ITEkako D.O.O.

Belgrade, Serbia

DevOps Engineer

May 2017. - present

- Work with CI/CD tools
- Work with configuration management tools
- SRE
- Server and network maintenance
- Cloud providers

## Max Planck Institute For Solar System Research

Göttingen, Germany

Research Internship at SLAM gropu

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

- o 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** 

Valjevo, Serbia 2015-Present

Junior Teaching Assistant

- Junior 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...)
  - 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
  - DSLR photometry on Delta Scutti variable stars
  - Reduction pipeline for variable stars DSLR photometry
  - Maintenance of personal computation server

Petnica Science Center Valjevo, Serbia

Participant and presenter at annual conference "Step into science"

2012-2013

Wroclaw, Serbia 26<sup>th</sup>-29<sup>th</sup> June 2018

Novi Sad, Serbia

Belgrade, Serbia

9<sup>th</sup>- 11<sup>th</sup> July 2017 **Prokuplie. Serbia** 

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

Belgrade, Serbia

Prokuplje, Serbia 1<sup>st</sup>-4<sup>th</sup>April 2016

23<sup>rd</sup> April 2016

18<sup>th</sup> November 2017

- o 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

Spectroscopic data analysis with iSpec

Participant, spectral data reduction and analysis with iSpec

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

Talk on, "Poynting flux derived from photospheric motions"

Advanced data mining with the Sloan Digital Sky Survey

Workshop on databases structures and their usage in astronomy

Observational school, SVAP 2017

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

Remote observation, photometry and data reduction

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

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

Observational school, SVAP 2016

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

Photometry and data reduction

Dom Omladine Beograda

Astronomy school for high school student

Lecturer and part of organization team

Belgrade, Serbia

May, 2014 - May, 2015

#### **Summer schools**

**Participant** 

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

# **Computer skills**

**General purpose programming**: Python<sup>1</sup>, IDL<sup>2</sup>

System administraton: Linux, BASH, LDAP, OpenVPN, Ansible, Nginx/Apache, Postgresql/MySQL

Scientific Software: IRAF/PyRaf, MaximDL, Origin/QtiPlot, SAODS9, LATEX

#### Research interest

- Dynamics of Solar atmosphere
- Spectropolarimetric inversion
- Image reconstruction
- Instrumentation
- Automatisation data reduction pipelines

<sup>&</sup>lt;sup>1</sup>Numpy, scipy, matplotlib, astropy, sunpy, flask

<sup>&</sup>lt;sup>2</sup>Coyote, Solarsoft

# Languages

o Graphic novels/comic books

o <b>Serbian</b> : Native speaker	o <b>English</b> : Fluent	
Interests		
Musical instruments and music	o Cooking	

Last update, February 21, 2019

Mountaineering