Nikolina Milanović

Curriculum Vitae

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Research interests

- > Astrophysical plasmas, observations and spectroscopy.
- > Heating of the upper solar atmosphere.

My PhD work is related to the dynamics and heating of the solar transition region and corona in connection to the magnetic field at the solar surface. I analyze observations acquired by different missions, including the Solar Orbiter, the Solar Dynamics Observatory, and IRIS. By combining spectroscopy and imaging data in the UV and extreme-UV radiation, I aim to understand the formation, thermal properties, and magnetic connectivity of different features in the quiescent solar corona – from diffuse-looking emission to highly-structured coronal bright points.

Education

11.2020 - current	PhD in Physics, IMPRS for Solar System Science 🛛
	Max Planck Institute for Solar System Research, Göttingen, Germany
	Technische Universität Braunschweig, Braunschweig, Germany
Topic	Dynamics in the solar atmosphere related to the surface magnetic field
	Supervisors: Prof. Dr. Hardi Peter, Dr. Lakshmi Pradeep Chitta
10.2018 - 09.2019	MSc in Astronomy
	Department of Astronomy, Faculty of Mathematics, University of Belgrade, Serbia
Master Thesis	Shock speed in nonradiative and radiative filaments in the supernova remnant Cygnus Loop
	Supervisors: Dr. Milica Vučetić, Dr. Dušan Onić
10.2014 - 07.2018	BSc in Astronomy
	Department of Astronomy, Faculty of Mathematics, University of Belgrade, Serbia
	Publications
>	Milanović, N., Chitta, L.P., Peter, H., 2023. Diffuse solar coronal features and their spicular
	footpoints. A&A 673, A81. https://doi.org/10.1051/0004-6361/202245544 🛛

Conferences and meetings

- 05.2023 SOLARNET Conference, Poster, Potsdam, Germany
- 09.2022 8th Solar Orbiter Workshop, Poster, Belfast, The United Kingdom
- 06.2022 10th Coronal Loops Workshop, Contributed talk, Paris, France
- 10.2021 Hinode 14 / IRIS 11 Meeting, Contributed talk, Online
- 09.2021 16th European Solar Physics Meeting, Poster-talk, Online
- 06.2019 Supernova Remnants II, Poster, Chania, Crete, Greece
- 05.2019 Regional Student Astronomical Workshop, Contributed talk, Nova Gorica, Slovenia

Internships and schools

- 2020 **Student Observational Workshop**, National Observatory Rozhen, Rozhen, Bulgaria Observation of galaxies in H α and [S II] emission in search for supernova remnants; data reduction.
- 2019 Summer internship, Max Planck Institute for Solar System Research, Göttingen, Germany Searching the Hinode SOT/SP database for sunspots with strongest magnetic fields on the Solar surface (with Dr. Sebastián Castellanos Durán, Dr. Björn Löptien and Dr. Andreas Lagg).
- 2018 **Summer School**, Ondřejov Observatory, Ondřejov, Czech Republic Reduction of the optical stellar spectra (with Dr. Michaela Kraus).
- 2017 **Student Observational School**, Astronomical Station Vidojevica, Prokuplje, Serbia Exoplanet transit light curve: data reduction and aperture photometry.

Skills

Computation

Python Anaysis and visualisation of astronomical spectroscopic and imaging data.

Familiar with different standard and specialized packages, including numpy, scipy, matplotlib, sunpy, astropy, pfsspy, aiapy etc.

Languages

- Serbian Native speaker
- English Fluent (CEFR Level C1)
- German Beginner (CEFR Level A2)

Teaching

2013 – 2020 Seminar of Astronomy, Petnica Science Center, Valjevo, Serbia Organizing astronomy seminars and supervising research projects for highschool students.

Outreach

- 06.2023 Max Planck Day, Göttingen, Germany Public outreach event on the 75th anniversary of the Max Planck Society.
- 2015 2017 **European Researchers' Night**, Belgrade, Serbia Organizing astronomy-related public outreach event.

Other interests

➤ Classical ballet and contemporary dance classes.

Referees

Prof. Dr. Hardi Peter

Scientist Max Planck Institute for Solar System Research Göttingen, Germany ■ peter@mps.mpg.de

Dr. Milica Vučetić

Research Associate Faculty of Mathematics University of Belgrade Belgrade, Serbia mandjelic@matf.bg.ac.rs

Dr. Lakshmi Pradeep Chitta

Research Group Leader Max Planck Institute for Solar System Research Göttingen, Germany ➡ chitta@mps.mpg.de

Dr. Dušan Onić

Assistant Professor Faculty of Mathematics University of Belgrade Belgrade, Serbia ▼ donic@matf.bg.ac.rs