

Education

- 11/2023 – present

PhD Astrophysics, *Universidad de La Laguna*, La Laguna, IC

EQF8 Stellar magnetic activity and rocky planets in cool dwarf stars with NIRPS.
- 09/2019 – 06/2023

MSci Astrophysics, *University College London*, London, UK

EQF7 Main modules: Physics of Stars, Physics of Exoplanets, Astronomical Spectroscopy, Quantum Physics. Mathematical Methods, Theory of Dynamical Systems, Techniques of High-Performance Computing.
- 09/2014 – 06/2019

System Programming, *MHS "Acad. Kiril Popov"*, Plovdiv, BG

EQF4 A professional qualification obtained alongside secondary education. Main modules: Electronics, Object-Oriented Programming, Web Development, Database Management.
- 09/2014 – 05/2019

Secondary Education, *MHS "Acad. Kiril Popov"*, Plovdiv, BG

EQF4 Main modules: Mathematics, Natural Sciences, Bulgarian, English, Russian.

Experience

- 11/2023 – present

Graduate Student Researcher, *Instituto de Astrofísica de Canarias*, La Laguna, IC

Analysis of stellar activity and potential exoplanetary signals in the spectra of cool dwarf stars. Associated with PhD Astrophysics, *Universidad de La Laguna*.
- 12/2022 – 03/2023

Research & Development Associate, *Synaptic*, Sofia, BG

Technical documentation and consultancy work in the field of natural sciences and information technologies. Engaged with the data visualisation and documentation of a prototype device in the area of rehabilitation and well-being, using Python and L^AT_EX.
- 06/2021 – 08/2021

Research Intern, *University College London*, London, UK

A Brian Duff studentship award by the UCL Astrophysics group, with topic "Exploration of exoplanet transits around gravity-darkened stars". Documented the use of TESS data products and the Python packages Lightkurve and eleanor. Worked with exoBush, a Fortran-based spectroscopic and photometric simulation tool described in Howarth & Smith (2001). Developed PEPPER, a Python wrapper that: (1) rapidly executes exoBush across a parameter space, (2) provides low-level tools for working with exoBush inputs/outputs, (3) provides affine-invariant Markov chain Monte Carlo fitting through emcee.
- 10/2018 – 03/2019

Web Development Intern, *Viscomp Ltd.*, Plovdiv, BG
- 10/2017 – 03/2018

Two part-time internships, each over a span of six months. Collaborated on a prototype web-based grade-book for a local university. Worked primarily on back-end development using PHP and MySQL.

Programming, markup and observing

| Current rotation | | Prior experience | | Observing | |
|---------------------------------|------|------------------|------|-----------|-----|
| L ^A T _E X | 7 yr | C++, SQL, PHP | 4 yr | ESO 3.6m | 8 n |
| Python | 5 yr | CSS, JS, Wolfram | 2 yr | TNG 3.5m | 4 n |
| | | Go | 1 yr | Rozhen 2m | 4 n |

Awards

- 07/2023

Doctoral INPhINIT Fellowship

"la Caixa" Foundation
- 06/2021

Brian Duff Award

University College London
- 09/2018

Joint Research Centre Award

European Union Contest for Young Scientists

Selected publications

- S. Y. Stefanov and A. K. Stefanov. Tilted discs in six poorly studied cataclysmic variables. *MNRAS*, 520(3):3355–3367, April 2023.
- A. Suárez Mascareño et al. TESS and ESPRESSO discover a super-Earth and a mini-Neptune orbiting the K-dwarf TOI-238. *A&A*, 685:A56, May 2024.