Lyubomir Shoylev

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Education

University of Oxford, St Hilda's College — Oxford, United Kingdom
Master of Physics — 4-year MPhys integrated masters — *Oct 2019 – exp Jun 2023*

- Second Year: Average 80% in remote exams with first class honours; received 'Commendation for Practical Work in Part A' for excellence of laboratory practical work.
- First Year: Average 88% in unofficial remote exams with first class honours; received 'Commendation for Practical Work in Prelims' for excellence of laboratory practical work. Awarded a 'College Scholarship in Physics' from St Hilda's College.

High School of Mathematics and Natural Sciences — Burgas, Bulgaria
High School Diploma (Diploma za Sredno Obrazovanie). — *Sep 2011 – Jun 2019*

- Graduated with overall grade 5.92/6.00 with 'Matura' in mathematics with grade 6.00/6.00. Appointed as Assistant Flagbearer for the year 2018–19 for achievements in Natural Sciences.

Experience

- **Projects** — I have worked on several independent and collaborative projects, amongst which:
  - A computing project for the second year physics practicals about writing a ordinary differential equation (ODE) solver and using it to study the properties of a white dwarf star. I implemented it in **Python** as a general class for ODEs, and a daughter class specific to the problem. I used a simple **multithreading** implementation of the calculations to speed up execution. I also produced various figures of my results using **Pyplot**. Finally, I produced a short report of my work in LaTeX.
  - An astronomy project concerning spectroscopic observations of stars at a summer camp in 2016. I performed data reduction on the acquired data in **IRAF**, a terminal application in **Linux**, where I learned how to work with the terminal efficiently. Following my success, I taught the data reduction process in IRAF to new pupils in 2017 and 2018.
- **Competitions** — During high school, I enjoyed participating in various competitions in the area of physics and astronomy, and had some success. The preparation for these events has taught me diligence and independence in tackling difficult and previously unknown topics. My highest achievements include:
  - Silver medal from the IOAA 2019 in Kesthely, Hungary;
  - Bronze medal from the IAO 2017 in Weihai, China;
  - Part of the extended national team for the IAO in 2015, 2016.
- **Education and outreach** — I enjoy sharing my passion for physics and astronomy and devote part of my time to education and outreach activities in my home town, which include:
  - Organising the National Round of the Astronomy Olympiad in Burgas during 6-8 May, 2022 in my home town. As a part of a team, my work included automatising the organisation of workflow in **Trello**, preparing participation forms in **Google Forms** and info packets and brochures in **MS Word**. I was also responsible for managing a team of volunteers for various on-site tasks.
  - Organising a yearly public outreach event since 2016 on the topic of Astronomy featuring scientists from our country. The aim of the event is to spark interest in the public and inspire young students with interests in the sciences.

Skills

Programming	Python, MATLAB, C++, LaTeX, HTML
Software	Linux Distros, Git & GitHub, VS Code, Slack, MS Office Suite
General	Problem Solving, Collaboration, Public Speaking, Organization Skills, Teaching

Interests

Cooking · Education · Movies · Board Games · Reading · Learning