

KRISTIÁN VITOVSKÝ

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GitHub

<https://github.com/KristianVitovsky>

EDUCATION

PhD in Physics (Astrophysics)	from July 2024	Heidelberg Institute of Theoretical Studies studies at Heidelberg University & IMPRS-HD Focus: Simulations of MHD flows in stellar interiors Supervisor: Prof. Dr. Friedrich Röpke
Master's degree in Astronomy and Astrophysics	2019 - 2023	Charles University in Prague Faculty: Faculty of Mathematics and Physics Programme: Physics; Specialization: Astronomy and Astrophysics Thesis topic: Hydrodynamical simulations of circumstellar discs Advisor: doc. Mgr. Miroslav Brož, Ph.D.
Erasmus+	2021 - 2022	Ruprecht Karl University of Heidelberg Department of Physics and Astronomy; Programme: Master of Science Physics
Summer practice	2017	Joint Institute for Nuclear Research International Student Practice in Dubna, Moscow Region Project: Constraining the Neutron Star Mass and Radius Relation Advisor: D.E. Alvarez-Castillo
Pedagogical Minimum	2017	JABOK higher vocational school of social pedagogy and theology Educator training.
Bachelor's degree in Physics	2016 - 2019	Charles University in Prague Faculty: Faculty of Mathematics and Physics; Programme: Physics, General Physics A study of the long-term brightness and colour variations of the Be star 88 Her Advisor: prof. RNDr. Petr Harmanec, DrSc
Primary and secondary education	2003 - 2016	Etherley lane · St. John's · Na Šutce · Gymnásium Na Vítězné Pláni Split between England and the Czech Republic. Graduated with honours.
RESEARCH AND PUBLICATIONS		
Astronomy and Astrophysics	2025	Hydrodynamical simulations of the β Lyr A circumstellar disc Main author, paper co-authored by Miroslav Brož.
Astronomy and Astrophysics	2022	V1294 Aql = HD 184279: A bad boy among Be stars or an important clue to the Be phenomenon? Co-author in a team, my role were mainly astronomical observations. https://doi.org/10.1051/0004-6361/202244006
Astronomy and Astrophysics	2021	Long-term, orbital and rapid variations of the Be star V923 Aql=HD 183656 Co-author in a team, research project studying long-term variability and duplicity of individual Be stars with multi-technique observations. https://doi.org/10.1051/0004-6361/202039740
Hvar Observatory	2018, 2019, 2020	Astronomical observations at Hvar Observatory Each year a month of photometric measurements at Hvar observatory in Croatia.
Student Faculty Grant	Finished 2017	Project analyzing spectra of V1765 Cyg Analysis of data from the Ondřejov Observatory in the Czech Republic as part of a Student Faculty Grant at the Astronomical Institute of Charles University: Pokus o spolehlivé nalezení spektrálních čar sekundáru v soustavě V1765 Cyg.

TEACHING AND WORK EXPERIENCE

<i>University of Heidelberg</i>	<i>from Oct. 2024</i>	Tutorials Theoretical & Computational Astrophysics Teaching tutorials accompanying master level lectures Theoretical Astrophysics and Computational Astrophysics at Heidelberg University.
<i>ERA a.s.</i>	<i>Jan.-May 2024</i>	Data analyst - VERA-NG Passive Radar system designed to track air, ground and naval targets through pulse and continuous signal analysis. https://www.era.aero/en/military-security/vera-ng
<i>Un. of Economics and Business</i>	<i>Spring semester 2024</i>	Teaching mathematics exercises I taught two mathematics exercises groups at VŠE in Prague.
<i>PJZŠ Horáčkova school</i>	<i>2019-21, 2022-23</i>	Physics and Informatics teacher Teaching 6th-grade informatics and 7th-, 8th- and 9th-grade physics.
<i>FH Královské Vinohrady</i>	<i>2020 - 2021</i>	Hospital attendant I joined the struggle against the COVID-19 pandemic as a hospital attendant at the First Clinic of Internal Medicine at Královské Vinohrady Hospital.
<i>Astronomical Institute of Charles University</i>	<i>2017 - 2022</i>	Non-academic employee This position allowed me to participate in some of the research described above.
<i>RIKKI summer camp organisation</i>	<i>2014 - present</i>	Camp counsellor Part of the summer and a number of weekends and holidays each year organising adventures in an outdoor setting for 6-16 year old children.
<i>Salesian Youth Centre</i>	<i>2013 - present</i>	Educator at Salesian Youth Centre Over the years at Salesian Youth Centre in Kobylisy I have led afterschool activities (Historical swordplay), worked as a coordinator during summer programmes, tutored and helped organize events for children.
<i>Private tutoring</i>	<i>2015-2024</i>	Private tutor of mathematics, physics and English.

OTHER QUALIFICATIONS

<i>Educator and managment course</i>	<i>2022</i>	Head camp leader course Course on work with youth and team management accredited by czech MEYS.
<i>Paramedic course</i>	<i>2017</i>	ZDrSEM Accredited paramedic requalification course: ZDrSEM STANDARD.

OTHER NOTABLES

<i>Student Representative</i>	<i>from 2024</i>	IMPRS-HD Student Representative I represent our (20th) generation of IMPRS-HD PhD students.
<i>Co-founder of a student club</i>	<i>2019-2024</i>	Student club ZAZI I helped found and now organize the student club ZAZI at the Faculty of Mathematics and Physics of Charles University.
<i>Creating games</i>	<i>2019-present</i>	Author of various live action games, Baggar Author and director of games for children and adults: live action role playing games by Baggar (group I helped found), gamified stories for children for Rikki camps.
<i>Student vocational activity</i>	<i>2015</i>	Student vocational activity 1st place. Project: Václav Hrabě, Nepřetržitě Blues (An original interpretation of the poetry of Václav Hrabě.) Supervisor: Eva Podzimeková.
<i>European Comenius project</i>	<i>2013-2014</i>	European Comenius project in Greece Exchange programme with Greece and Exhibition in Prague's main gallery.

OTHER INFORMATION AND SKILLS

<i>Languages</i>	ENGLISH · Fluent, CAE diploma with a C2 grade. Childhood in England. GERMAN · Fluent, Das Deutsche Sprachdiplom with a C1 grade. FRENCH · Basic communication, A1.3 grade CZECH · Mother tongue
<i>Computer skills</i>	Numerical modeling. Programming in Python, C, HTML, CSS, Java and Pascal. Experience with Git and GitHub. Linux user. Working in LaTeX. Basic knowledge of parallel programming and machine learning.
<i>Interests</i>	Summer camp coordinator · Mounteneering and climbing · Long-distance treks · Travelling · Literature · Cross-country skiing · Running

October 20, 2025