

# KRISTIÁN VITOVSKÝ

Born in Prague, Czech Republic, 16 May 1997

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## EDUCATION

PhD in Physics (Astrophysics)	from July 2024	<b>Heidelberg Institute of Theoretical Studies</b> 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	<b>Charles University in Prague</b> 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	<b>Ruprecht Karl University of Heidelberg</b> Department of Physics and Astronomy; Programme: Master of Science Physics
Summer practice	2017	<b>Joint Institute for Nuclear Research</b> International Student Practice in Dubna, Moscow Region Project: Constraining the Neutron Star Mass and Radius Relation Advisor: D.E. Alvarez-Castillo
Pedagogical Minimum	2017	<b>JABOK</b> higher vocational school of social pedagogy and theology Educator training.
Bachelor's degree in Physics	2016 - 2019	<b>Charles University in Prague</b> 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	<b>Etherley lane · St. John's · Na Šutce · Gymnásium Na Vítězné Pláni</b> Split between England and the Czech Republic. Graduated with honours.
<b>RESEARCH AND PUBLICATIONS</b>		
Astronomy and Astrophysics	With publisher. <b>Hydrodynamical simulations of the <math>\beta</math> Lyr A circumstellar disc</b> Submitted as main author, paper co-authored by Miroslav Brož.	
Astronomy and Astrophysics	2022	<b>V1294 Aql = HD 184279: A bad boy among Be stars or an important clue to the Be phenomenon?</b> Co-author in a team, my role were mainly astronomical observations. <a href="https://doi.org/10.1051/0004-6361/202244006">https://doi.org/10.1051/0004-6361/202244006</a>
Astronomy and Astrophysics	2021	<b>Long-term, orbital and rapid variations of the Be star V923 Aql=HD 183656</b> Co-author in a team, research project studying long-term variability and duplicity of individual Be stars with multi-technique observations. <a href="https://doi.org/10.1051/0004-6361/202039740">https://doi.org/10.1051/0004-6361/202039740</a>
Hvar Observatory	2018, 2019, 2020	<b>Astronomical observations at Hvar Observatory</b> Each year a month of photometric measurements at Hvar observatory in Croatia.
Student Faculty Grant	Finished 2017	<b>Project analyzing spectra of V1765 Cyg</b> 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 have also worked as a waiter, in a warehouse and as a worker on a construction site.

<i>ERA a.s.</i>	<i>Jan.-May 2024</i>	<b>Data analyst - VERA-NG</b>	Passive Radar system designed to track air, ground and naval targets through pulse and continuous signal analysis. <a href="https://www.era.aero/en/military-security/vera-ng">https://www.era.aero/en/military-security/vera-ng</a>
<i>Un. of Economics and Business</i>	<i>Spring semester 2024</i>	<b>Teaching mathematics exercises</b>	I will be teaching two mathematics exercises groups at VŠE in Prague.
<i>PJZŠ Horáčkova school</i>	<i>2019-21, 2022-23</i>	<b>Physics and Informatics teacher</b>	Teaching 6th-grade informatics and 7th-, 8th- and 9th-grade physics.
<i>FH Královské Vinohrady</i>	<i>2020 - 2021</i>	<b>Hospital attendant</b>	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>	<b>Non-academic employee</b>	This position allowed me to participate in some of the research described above.
<i>RIKKI summer camp organisation</i>	<i>2014 - present</i>	<b>Camp counsellor</b>	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>	<b>Educator at Salesian Youth Centre</b>	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>Tutoring</i>	<i>2015-present</i>	<b>Tutor of mathematics, physics and english.</b>	

## OTHER QUALIFICATIONS

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

## OTHER NOTABLES

<i>Co-founder of a student club</i>	<i>2019-present</i>	<b>Student club ZAZI</b>	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>	<b>Author of various live action games, Baggar</b>	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>	<b>Student vocational activity 1st place.</b>	Project: Václav Hrabě, Nepřetržitě Blues (An original interpretation of the poetry of Václav Hrabě.) Supervisor: Eva Podzimková.
<i>European Comenius project</i>	<i>2013-2014</i>	<b>European Comenius project in Greece</b>	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 · Mountaineering and climbing · Long-distance treks · Travelling · Literature · Cross-country skiing · Running · Jiu-jitsu

October 23, 2024