

# KRISTIÁN VITOVSKÝ

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## EDUCATION

*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**

Faculty: 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

Thesis: A study of the long-term brightness and colour variations of the Be star 88 Herculis

Advisor: prof. RNDr. Petr Harmanec, DrSc

*Primary and  
secondary  
education*

2003 - 2016

**Etherley lane · St. John's · Na Šutce · Gymnásium Na Vítězné Pláni**

My primary education was split between England and the Czech Republic.

Graduated with honours.

## RESEARCH AND PUBLICATIONS

*Current work*

*Working on.*

**Hydrodynamical simulations of the  $\beta$  Lyr A circumstellar disc**

I am working as the main author, paper will be co-authored by M. Brož.

*Astronomy and  
Astrophysics*

2022

**V<sub>1294</sub> Aql = HD 184279: A bad boy among Be stars or an important clue to the Be phenomenon?**

Co-author in a team of authors as a part of a research project. My role was astronomical observations of the star.

<https://doi.org/10.1051/0004-6361/202244006>

*Astronomy and  
Astrophysics*

2021

**Long-term, orbital and rapid variations of the Be star V<sub>923</sub> Aql=HD 183656**

Published in a team of authors as a part of an research project studying long-term variability and duplicity of individual classical as well as other 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.

<i>Student Faculty Grant</i>	<i>Finished 2017</i>	<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.
<i>PJZŠ Horáčkova school</i>	<i>2019-21, 2022-23</i>	<b>PJZŠ Horáčkova 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 at FH Královské Vinohrady</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 at the Astronomical Institute</b> This position allowed me to participate in the research described above as a student.
<i>RIKKI summer camp organisation</i>	<i>2014 - present</i>	<b>Camp counselor</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, Nepřetržité 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 · Mothertongue
<i>Computer skills</i>	Numerical modeling. Programming in Python, C, HTML, CSS, Java and Pascal. Experience with Git and GitHub. Basic knowledge of parallel programming and machine learning. Linux user. Working in LaTeX.
<i>Interests</i>	Summer camp coordinator · Mounteneering and climbing · Long-distance treks · Travelling · Literature · Cross-country skiing · Running · Jiu-jitsu

December 13, 2023