

RNDr. Jaroslav Merc, Ph.D.

CURRICULUM VITAE

Personal Information

Date and Place of Birth

1995 · KOŠICE, SLOVAKIA

Professional Address

V HOLEŠOVIČKÁCH 2, 180 00, PRAGUE, CZECH REPUBLIC

Contact Details

+420 95155 2582 · JAROSLAV.MERC@MFF.CUNI.CZ · HTTP://JMERC.MATFYZ.CZ/

Employment

Astrophysical Institute, Charles University in Prague

RESEARCHER

Prague, Czech Republic

SEPTEMBER 2022 - PRESENT

Education

Charles University in Prague

DOCTORAL DEGREE IN THEORETICAL PHYSICS, ASTRONOMY AND ASTROPHYSICS

- **PhD thesis (Cotutelle):** Multifrequency investigation of symbiotic binaries

Prague, Czech Republic

OCTOBER 2018 - AUGUST 2022

Pavol Jozef Šafárik University in Košice

DOCTORAL DEGREE IN ASTROPHYSICS

- **PhD thesis (Cotutelle):** Multifrequency investigation of symbiotic binaries

Košice, Slovakia

SEPTEMBER 2018 - AUGUST 2022

Pavol Jozef Šafárik University in Košice

MASTER'S DEGREE IN THEORETICAL PHYSICS AND ASTROPHYSICS

- **Master's thesis:** Spectroscopic activity of the symbiotic binary AG Draconis
- **State exams:** Astronomy and Astrophysics

Košice, Slovakia

SEPTEMBER 2016 - MAY 2018

Pavol Jozef Šafárik University in Košice

BACHELOR'S DEGREE IN PHYSICS

- **Bachelor's thesis:** Spectroscopic investigation of the symbiotic binary AG Draconis
- **State exams:** Physics

Košice, Slovakia

SEPTEMBER 2013 - JUNE 2016

Skills

Computer OS Windows, OS Linux, Microsoft Office, Matlab, Python, LaTeX, HTML

Languages Slovak (native), Czech (fluent), English (fluent), German (good command), Spanish (basic communication skills)

Personal ambitious, confident, reliable, hardworking, communicative, teamwork, leadership, adaptability, desire to learn

Others driving licence (B) - active driver

Stays Abroad

- 01/2020** Nicolaus Copernicus Astronomical Center, Warsaw, Poland
10/2019 Tartu Observatory, Tõravere, Estonia
10/2018 - 11/2018 Tartu Observatory, Tõravere, Estonia
09/2017 - 02/2018 Charles University, Prague, Czech Republic
09/2016 Tartu Observatory, Tõravere, Estonia
10/2015 - 11/2015 Tartu Observatory, Tõravere, Estonia

Honors and Awards

- 2022 **3rd Place Award**, in Competition of Scientific Publications of Young Physicists 2022 [SPS](#)
2022 **Dean's Award**, for scientific research activities of doctoral students [PF UPJŠ Košice](#)
2021 **3rd Place Award**, in Competition of Scientific Publications of Young Physicists 2021 [SPS](#)
2021 **The Award of the Director of the Institute of Physics**, for the best scientific publication in 2020 [IoP, PF UPJŠ Košice](#)
2018 **The Annual Rector's Award**, for university promotion in the area of science and research [UPJŠ Košice](#)
2018 **The Annual Rector's Award**, for excellent study results during the entire study [UPJŠ Košice](#)
2017 **The Annual Rector's Award**, for university promotion in the area of science and research [UPJŠ Košice](#)
2016 **The Annual Award of Slovak Astronomical Society**, for popularization and promotion of science [SAS at SAV](#)
2016 **The Annual Rector's Award**, for excellent study results during the entire study [UPJŠ Košice](#)
2016 **The Annual Rector's Award**, for university promotion in the area of science and research [UPJŠ Košice](#)
2015 **Dean's Laudatory Recognition**, for excellent study results and student research work [PF UPJŠ Košice](#)

Membership in Associations and Societies

- EU **European Astronomical Society**, member
SVK **Slovak Astronomical Society at the Slovak Academy of Sciences**, member of the council
SVK **Slovak Union of Astronomers**, member
CZE **Czech Astronomical Society**, member

Grants

- APVV-20-0148: From Interacting Binaries to Exoplanets (2021-2025)** [Slovakia](#)
CO-INVESTIGATOR [EUR 235 000](#)
- VVGS-PF-2021-1746: Comprehensive research of selected symbiotic candidates in the Milky Way and Magellanic Clouds (2021-2022)** [Slovakia](#)
PRINCIPAL INVESTIGATOR [EUR 650](#)
- GAUK 890120: Population of symbiotic binaries in the Galaxy and Magellanic Clouds (2020-2022)** [Czech Republic](#)
PRINCIPAL INVESTIGATOR [CZK 523 000](#)
- VVGS-PF-2019-1047: Multi-frequency research of selected symbiotic binaries (2019-2020)** [Slovakia](#)
PRINCIPAL INVESTIGATOR [EUR 650](#)
- APVV-15-0458: Interacting binaries: the key to understanding of the universe (2016-2020)** [Slovakia](#)
CO-INVESTIGATOR [EUR 214 174](#)

Observing Experience

Telescope Operator

PHOTOMETRY

- Mayer 0.65-m telescope, Ondřejov, Czech Republic
- Danish 1.54-m telescope. La Silla, Chile

SPECTROSCOPY

- 0.30-m telescope of the 2SPOT Association equipped with Alpy600 spectrograph, Chile

Proposals

OPTICON

- 22B027: Gaia's first symbiotic nova and first extragalactic symbiotic star; Principal Investigator

SALT

- 2021-2-SCI-009: Confirming symbiotic star candidates in the Milky Way; Co-Investigator

Extracurricular Activities

Service to the Profession

SUPERVISING STUDENTS

- consultant of 2 bachelor's and 1 master's theses
- supervisor of 2 high school students' professional activities

JOURNAL EDITOR

- co-editor of the **Journal of the ASB Society** (open access peer-reviewed multidisciplinary science journal for undergraduate university and high school students)

CONFERENCE ORGANIZATION

2023	Astronomical Slovakia: Education and Outreach , Danišovec, Slovakia	<i>SOC/LOC</i>
2023	Bezovec 2023: Conference of Young Astronomers , Nová Lehota, Slovakia	<i>SOC/LOC</i>
2022	Bezovec 2022: Conference on the History of Astronomy , Nová Lehota, Slovakia	<i>SOC/LOC</i>
2021	53rd Conference on Variable Star and Exoplanet Research , Prague, Czech Republic	<i>SOC/LOC</i>
2021	Bezovec 2021: Conference of Young Astronomers , Nová Lehota, Slovakia	<i>SOC/LOC</i>
2020	52nd Conference on Variable Star and Exoplanet Research , Online	<i>SOC/LOC</i>
2020	Bezovec 2020: Astronomical Research in Slovakia , Online	<i>SOC/LOC</i>
2019	Astronomical Slovakia: Education and Outreach , Danišovec, Slovakia	<i>SOC/LOC</i>

Outreach

PUBLIC LECTURES AND EVENTS

- organizer of astronomical outreach lectures and observations for general public
- narrator of the episodic podcast 'The Universe in a Practical Package' (broadcast in Slovak language)
- guest of numerous radio and TV shows

OFFICE FOR ASTRONOMY OUTREACH OF THE INTERNATIONAL ASTRONOMICAL UNION

- vice-NOC Slovakia (National Outreach Coordinator)
- chair of the NameExoWorlds 2022 project in Slovakia
- chair of the IAU100 NameExoWorlds project in Slovakia
- member of the IAU100 organizing committee in Slovakia

LIGHT POLLUTION

- leader of the Section of Protection Against the Light Pollution of the Slovak Astronomical Society
- coordinator of Globe at Night and Earth Hour projects in Slovakia