

RNDr. Václav Pavlík, Ph.D.

Researcher at *Astronomical Institute, Czech Academy of Sciences* | **Individual member** of IAU
Czech representative at the Board of Directors of the peer-reviewed journal *Astronomy & Astrophysics*
Editor-in-Chief of the Czech outreach journal *Astropis* | **Board Member** of *Czech Astronomy Olympiad*
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WORK AND RESEARCH EXPERIENCE

- 01/2024 – present **Marie Skłodowska-Curie Postdoctoral Fellow** *supervisor: Prof Vladimír Karas*
funded by MSCA-COFUND project “MERIT”, Astronomical Institute, Czech Academy of Sciences, CZE (*see Grants*)
- 07/2023 – 12/2023 **Associate Scientific Editor** *full-time staff position*
Publishing house Aventinum s.r.o., Prague, CZE
- 08/2022 – 05/2023 **Visiting Lecturer** *i.e. visiting professorship (primary lecturer of 2 courses per semester) | supervising one teaching assistant (grader) per course*
Physics Department, Indiana University Bloomington, Bloomington, IN, USA
- SPRING 2023** **Physics 3: Modern Physics** (PHYS-P 301, required) | **Basic Physics of Sound** (PHYS-P 105)
FALL 2022 **Physics 3: Modern Physics** (PHYS-P 301, required) | **Basic Physics of Sound** (PHYS-P 105)
- 09/2020 – 05/2023 **Postdoctoral Fellow** *financial support from my mentor Prof Enrico Vesperini*
Astronomy Department, Indiana University Bloomington, Bloomington, IN, USA | I maintain collaboration and I am still affiliated with Indiana University, currently as a no-pay employee.
- 11/2019 – 08/2020 **Postdoctoral Researcher** *part-time | financial support from Prof Vladimír Karas, Dr Peter Nemeth*
Astronomical Institute of the Czech Academy of Sciences, Prague and Ondřejov, CZE
- 01/2018 – 08/2020 **Educator & Specialist** *full-time staff position | concurrently with PhD studies*
Planetarium Prague (Planetum), Prague, CZE

EDUCATION

(all levels at Charles University, Prague, CZE)

- 2014 – 2019 **Ph.D. in Theoretical Physics, Astronomy and Astrophysics** *awarded Sep 6, 2019*
- 2017 – 2018 **Doctorate in Natural Sciences** (*RNDr. – post-master’s rigorosum*)
- 2012 – 2014 **Graduate studies in Astronomy and Astrophysics** (*MGr. – Master’s degree*)
- 2009 – 2012 **Undergraduate studies in Physics** (*Bc. – Bachelor’s degree*)

MENTORING ACTIVITIES

- starting Oct 2026 **Supervisor of C. N. Carmichael’s PhD Thesis**
Faculty of Mathematics and Physics, Charles University, Prague, CZE
- 2026 – present **Supervisor of D. Heinich’s student’s project**
Gymnázium a ZUŠ Šlapanice, Šlapanice, CZE
- 2026 – present **Supervisor of K. Tesař’s student’s project**
Nový PORG Gymnázium, Prague, CZE
- 2025 – present **Supervisor of M. Nedoma’s student’s project**
Biskupské gymnázium, Žďár nad Sázavou, CZE
- 2024 – present **Advisor of A. Lattanzi’s MSc thesis** *supervisor: Prof Steven N. Shore*
Department of Physics, University of Pisa, ITA
- 2024 – 2025 **Advisor of M. Trnka’s MSc thesis** *supervisor: Prof Václav Šmídl*
Faculty of Electrical Engineering, Czech Technical University, Prague, CZE (*defence and exam: Jun 11, 2025*)
- 2024 **Supervisor of Erasmus+ Traineeship of L. Großekathöfer** *co-supervisor: Prof Vladimír Karas*
MSc and PhD student mobility between the University of Köln (GER) and the Czech Academy of Sciences (CZE)
- 2023 – 2025 **Advisor of M. Fuksa’s MSc thesis** *supervisor: Prof Vladimír Karas, co-advisor: Prof Steven N. Shore*
Astronomical Institute, Charles University, Prague, CZE (*defence: Sep 5, 2024 | state exam: Feb 5, 2025*)
- 2021 – 2022 **Advisor of P. Suin’s MSc thesis** *supervisor: Prof Steven N. Shore*
Department of Physics, University of Pisa, ITA (*defence and exam: Feb 8, 2022, with honours*)

REFEREE & JOURNAL WORK

Since February 2026, I have been the **Czech representative at the Board of Directors** of *Astronomy & Astrophysics*.

ARTICLES *Astronomy & Astrophysics*, *Monthly Notices of the Royal Astronomical Society*, *Astrophysical Journal*

GRANT PROPOSALS Commission No. 2 for Earth and Space sciences of VEGA (the Scientific Grant Agency of the Ministry of Education, Research, Development and Youth of the Slovak Republic, and of the Slovak Academy of Sciences)

PUBLICATIONS Aventinum, Albatros Media, Slovart (publishing houses in the Czech Republic)

OTHER EDUCATIONAL ACTIVITIES

2012 – present	Board member and co-organizer of Czech Astronomy Olympiad (AO) olympiada.astro.cz
2024, 2025	Czech team leader at 3rd, 4th International Olympiad on Astronomy and Astrophysics Junior
2016 – 2022	LOC chair and lecturer of yearly student workshops within AO (see also section Grants)
2016 – 2019	Czech team leader at XXI – XXIV International Astronomy Olympiad

PUBLICATIONS, CONFERENCES & LECTURES

RESEARCH

Articles in high-impact journals: 11 in *A&A*, 1 in *A&A Letters*, 4 in *MNRAS*, 1 in *MNRAS Letters* | **Other peer-reviewed articles:** 1 in *CoSka*, 1 in *Physics Today Letters* | Co-author of an **invited review** in *Computational Astrophysics and Cosmology* | Author of *VizieR* and *Zenodo* online **data catalogues** | Author of several **conference proceedings**, e.g., in *IAU Symposium*, *Bulletin of the AAS*, *Revisita Mexicana de Astronomia y Astrofisica Conference Series* or *RAGtime* | **Invited** to give a review talk at *EAS 2026* | **Editor of proceedings** for the *Cologne–Prague Workshop* in 2024 | **LOC and SOC** of *AI&GW@CZ Workshop* | **LOC** of *IAUS 405* (planned in 2026) and **Editor-in-Chief** of the associated *Galactic Newsletter* | The full list of publications is in my **ADS library** | I also gave several other invited talks, lectures and seminars both in the Czech Republic and internationally (at conferences, workshops and foreign universities), and presented a number of contributed talks and posters at international scientific conferences.

EDUCATION AND OUTREACH

Author of children’s books on astronomy (4 in Czech and 3 in English; published in *Aventinum*) | Co-author and editor of 7 **Problem Booklets** and other **educational materials for the Astronomy Olympiad (all Open Access)** | Co-author of conference proceedings in “Modern trends in physics teaching” and “**III Workshop on Astronomy Beyond the Common Senses for Accessibility and Inclusion**” | **Key speaker** for HST documentary (*Parabolic Vision Media*, in 2021) | **3 translated books** for *Slovart* publishing house | **Content reviewer** for *Albatros* and *Aventinum* publishers | **Editor-in-Chief** and **author** for *Astropis* (ISSN 1211-0485) with 50+ observational articles, 20+ outreach articles, and 10+ conducted interviews with famous physicists and astronauts (including 6 Nobel Prize laureates) | **20+ invited public/educational lectures** in the Czech Republic, Slovakia, Serbia and USA | I have also been **interviewed by magazines** *Československý časopis pro fyziku* (ISSN 0009-0700), *Tajemství Vesmíru* (ISSN 1805-5249) and *Věda Výzkum* (online), and **invited** to the *Czech National TV*, *Czech Radio*, and podcasts as a speaker. | I also regularly visit **preschools and primary schools** to teach astronomy.

GRANTS, FUNDING & PROJECT SUPPORT

SCIENTIFIC

01/2025 – present	Co-PI of project “Artificial Intelligence at Astronomical Institute” within “Strategy AV21 - AI in Science” from the Czech Academy of Sciences	~12 000 EUR
01/2024 – present	PI of Marie Skłodowska-Curie Actions – COFUND project “ECLIPSE – Exploring Compact stellar remnants and their Impact on Star Clusters Evolution” 30-month funding from the European Union’s Horizon Europe and the Central Bohemian Region under the Grant agreement ID 101081195 (“MERIT”, meritcb.eu)	~170 400 EUR
03/2022 – present	PI of project “Dynamical evolution of star clusters with anisotropic velocity distributions” Indiana University Information Technology Services (fair-share access to CPUs and GPUs, extended 15 TiB quota)	
12/2014 – present	account at the Czech national grid MetaCentrum (e-INFRA) subject to yearly evaluation (fair-share access to CPUs and GPUs, 30 TiB quota)	
01/2016 – 12/2018	PI of project “Perturbed stellar motions in dense star clusters” project GAUK-186216 (Grant Agency of Charles University)	~20 700 EUR

EDUCATION

2018 – 2022	PI of “Workshop for younger students of the Astronomy Olympiad” “Giftedness strategy” projects 0043/7/NAD/2018, 0003/7/NAD/2019, 0018/7/NAD/2020, 0051/7/NAD/2021, and 0025/7/NAD/2022 (funded by the Czech Ministry of Education, Youth and Sports)	~3 900 EUR per project
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AWARDS AND HONOURS

2025	Jan Frič Award for the series of works “A Detailed Study of Stellar Dynamics and Cluster Evolution” from the Astronomical Institute of the Czech Academy of Sciences for my research results between 2019 and 2024 that contributed to the prestige of the Institute in international comparison Czech Wiki ~4 790 EUR
2021	IU Bicentennial Public Science and Math Award Lecture from the College of Arts and Sciences, Indiana University Bloomington, IN, USA
2016, 2017, 2018, 2019	Commemorative Diplomas from the Czech Ministry of Education, Youth and Sports for representing the Czech Republic in international competitions as a Team Leader
2014	3rd place in Czechoslovak Student Scientific Conference in Physics for my MSc thesis co-organised by the Faculty of Mathematics and Physics of Charles University, Prague, CZE