

Zdeněk Prudil

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SCIENTIFIC CAREER	ESO Fellow European Southern Observatory (ESO), Garching, Germany	from Dec 2022
	Postdoctoral researcher Astronomisches Rechen-Institut, Heidelberg, Germany <i>Focus:</i> Chemo-dynamical mapping of the Galactic bulge	Jul 2020 – Nov 2022
	Graduate researcher Astronomisches Rechen-Institut, Heidelberg, Germany <i>Focus:</i> RR Lyrae stars as tracers of substructure and Galactic archaeology	Sep 2016 – Jun 2020
EDUCATION	Ph.D. in Astronomy: Astronomisches Rechen-Institut, Heidelberg University, Heidelberg, Germany, <i>Supervisor:</i> Prof. Dr. Eva K. Grebel	2016 – 2020
	MSc. in Theoretical Physics and Astrophysics: Faculty of Science, Masaryk University, Brno, Czech Republic, <i>Supervisor:</i> Mgr. Marek Skarka, Ph.D.	2014 – 2016
	BSc. in Astrophysics: Faculty of Science, Masaryk University, Brno, Czech Republic, <i>Supervisor:</i> doc. RNDr. Miloslav Zejda, Ph.D.	2011 – 2014
RESEARCH INTERESTS	<ul style="list-style-type: none">• Pulsating variable stars• The Milky Way structure and dynamics using stellar tracers• Data analysis and machine learning	
FELLOWSHIPS AND AWARDS	ESO postdoctoral research fellowship	Dec 2022 - May 2026
	Hector Fellowship: Hector Fellow Academy, Germany	Apr 2017 - Apr 2020
	<i>Benefits:</i> 3 years of full Ph.D. funding, including a research fund of 45 000 €	
	The International Max Planck Research School for Astronomy and Cosmic Physics: Fellow of the IMPRS-HD	Sep 2016 - Apr 2020
	Masaryk University: Deans' award for the best Master thesis 1 000 €	Jun 2017
	<i>Thesis:</i> Blazhko Effect in Galactic Bulge RR Lyrae Stars	
PUBLICATION RECORD	<ul style="list-style-type: none">• 37 refereed publications (15 as a first author, and 9 as second/third co-author)• 765 citations, h-index= 18 (based on ADS, as of 7th January 2026)	
ACADEMIC SERVICE	Journal referee: Astrophysical Journal (ApJ), Astronomical Journal (AJ), Astronomy and Astrophysics (A&A), Monthly Notices of the Royal Astronomical Society (MNRAS), Journal of the American Association of Variable Star Observers (JAAVSO), Astrophysics and Space Science	
	Grant reviewer: The National Fund for Scientific and Technological Development: FONDECYT grant evaluation, Chile (2023)	
	Committee work: ESO Summer Student Internship Selection Committee (2023), ESO Studentship Selection Committee (2023, 2024, 2025), ESO Workshops 2026 selection committee (2025), Scientific assistant for the ESO Observing Programs Office (Spring 2024 + P114, Spring 2025 + P116).	

COLLABORATION MEMBERSHIPS

Wide-field Spectroscopic Telescope (WST) – member of the time-domain working group.

4MOST spectroscopic survey – member of S1 (The Milky Way Halo Low-Resolution Survey) and S9 (One Thousand and One Magellanic Fields, 1001MC) consortium surveys and developer for the Infrastructure Working Group 7 – Galactic pipeline.

Member of KASC and TASC: Member of the Kepler Asteroseismic Science Center (KASC) Working Group 7, and TESS Asteroseismic Science Center (TASC) Working Group 6: RR Lyrae and Cepheid stars.

Member of Collaborative Research Center (SFB) 881: “The Milky Way System”, University of Heidelberg 2020 – 2022.

SUCCESSFUL PROPOSALS as a PI and Co-I

– **Principal Investigator of BEACON@4MOST**, a 4MOST supplementary target program accepted for inclusion in the 4MOST survey plan. The program aims to observe up to 9970 RR Lyrae stars (corresponding to approximately 3330 fibre-hours, assuming ≈ 20 min per target) over the five-year survey duration.

– **Co-Investigator of STITCH@4MOST**, a 4MOST supplementary target program selected for inclusion in the 4MOST survey plan. The program is designed to obtain ~1021 spectroscopic observations of Galactic Type II and Anomalous Cepheids, corresponding to roughly 340 fibre-hours assuming typical exposure times of ~20 minutes.

In other facilities, I was awarded more than **140 hours as a PI** and > 230 hours as Co-I on 8-meter class telescopes.

Gemini South, GHOST, Co-I: Z. Prudil – total time awarded: 29.17 hours *Program: GS-2025B-Q-412* **2025**

Gemini South, GHOST, Co-I: Z. Prudil – total time awarded: 23.56 hours (my science case and experimental design) *Program: GS-2025B-Q-412* **2025**

Gemini North, MAROON-X, Co-I: Z. Prudil – total time awarded: 22.2 hours (my science case and experimental design) *Program: GN-2025B-Q-411* **2025**

Gemini North, MAROON-X, Co-I: Z. Prudil – total time awarded: 4.55 hours (my science case and experimental design) *Program: GN-2025B-Q-407* **2025**

Gemini North, MAROON-X, Co-I: Z. Prudil – total time awarded: 1.87 hours (my science case and experimental design) *Program: GN-2025B-Q-406* **2025**

Gemini South, GHOST, Co-I: Z. Prudil – total time awarded: 12.48 hours (my science case and experimental design) *Program: GS-2025B-Q-411* **2025**

Gemini South, GHOST, Co-I: Z. Prudil – total time awarded: 1.93 hours (my science case and experimental design) *Program: GS-2025B-Q-410* **2025**

VLT, UVES, PI: Z. Prudil – total time awarded: 20 hours
Program: 115.27V9 **2025**

VLT, UVES, PI: Z. Prudil – total time awarded: 1.5 hours
Program: 115.27VB **2025**

VLT, HAWKI, Co-I: Z. Prudil – total time awarded: 30 hours
Program: 115.27YU **2025**

Gemini South, GHOST, Co-I: Z. Prudil – total time awarded: 24.8 hours (my science case and experimental design) *Program: GS-2025A-Q-411* **2025**

Gemini North, MAROON-X, Co-I: Z. Prudil – total time awarded: 22.2 hours (my science case and experimental design) *Program: GN-2025A-Q-408* **2025**

Gemini South, GHOST, Co-I: Z. Prudil – total time awarded: 10.5 hours	<i>Program: GS-2025A-Q-223</i>	2025
Gemini South, Zorro, Co-I: Z. Prudil – total time awarded: 1.1 hours	<i>Program: GS-2025A-FT-107</i>	2025
Gemini North, Alopeke, Co-I: Z. Prudil – total time awarded: 2.5 hours	<i>Program: GN-2025A-FT-211</i>	2025
SOAR, Goodman HTS, Co-I: Z. Prudil – total time awarded: 20 hours	<i>Program: 2025A-496856</i>	2025
VLT, UVES, PI: Z. Prudil – total time awarded: 60.0 hours	<i>Program: 114.27LY</i>	2024
VLT, UVES, PI: Z. Prudil – total time awarded: 59.4 hours	<i>Program: 113.26CJ</i>	2024
Gemini South, GHOST, Co-I: Z. Prudil – total time awarded: 19.5 hours	<i>Program: GS-2024A-Q-414</i>	2024
MPG/ESO 2.2m telescope, FEROS, PI: Z. Prudil – total time awarded: 72 hours	<i>Program: 0109.A-9029(A)</i>	2021
Gemini South, Zorro, Co-I: Z. Prudil – total time awarded: 9.9 hours	<i>Program: GS-2021B-Q-315</i>	2021
Gemini North, Alopeke, Co-I: Z. Prudil – total time awarded: 6.5 hours	<i>Program: GN-2021B-Q-309</i>	2021
Gemini South, Zorro, Co-I: Z. Prudil – total time awarded: 8.7 hours	<i>Program: GS-2021A-Q-220</i>	2021
Gemini North, Alopeke instrument, Co-I: Z. Prudil – 2.1 hours	<i>Program: GN-2020B-FT-15</i>	2020
MPG/ESO 2.2m telescope, FEROS, PI: Z. Prudil – DDT 10 hours	<i>Program: 0103.A-9029(A)</i>	2019
VLT, ESPRESSO, PI: Z. Prudil – total time awarded: 2.6 hours	<i>Program: 60.A-9511(A)</i>	2019

RESEARCH VISITS

- Osservatorio Astronomico di Capodimonte, Napoli, Italy July 2025
 - University of Central Lancashire, Preston, United Kingdom May 2025
 - Astronomical Institute of the Czech Academy of Sciences, Ondrejov, Czech Republic Oct 2022
 - Faculty of Science, Masaryk University, Brno, Czech Republic Oct 2022
 - Faculty of Science, Masaryk University, Brno, Czech Republic Oct 2018
 - Nicolaus Copernicus Astronomical Center of the Polish Academy of Sciences, Warsaw, Poland Mar 2018
 - Nicolaus Copernicus Astronomical Center of the Polish Academy of Sciences, Warsaw, Poland Feb 2016

TECHNICAL SKILLS

Programming languages: Python (numpy, scipy, matplotlib, scikit-learn, emcee), and working knowledge of SQL and ADQL. Basic knowledge of C and HTML.

Software: AGAMA, galpy, iSpec, Period04, L^AT_EX, MOOG, data reduction pipelines: ESO Reflex-UVES, CERES

**STUDENT
SUPERVISION &
TEACHING**

Mentoring and co-supervising experience:

- Mentoring four PhD students at ESO
- EMANUELA LUONGO graduate student at the Osservatorio Astronomico di Capodimonte, Via Moiariello, Naples, Italy, Co-supervised her research, culminating in a peer-reviewed first-author publication (Luongo et al., including Prudil, Z., A&A, 690, L17). **Jul 2023 – Oct 2023**
- CLAIRE SKAGGS undergraduate student at the Saint Martin's University, Lacey, USA, Co-supervised her research, which contributed to a peer-reviewed publication (Kunder A., Prudil Z., Skaggs C., et al. 2024, AJ, 168, 139) and earned her first prize in the Physics and Engineering poster session at the Murdock Undergraduate Research Conference. **Jul 2023**
- MARTIN MAX undergraduate student at the Faculty of Science, Masaryk University, Brno, Czech Republic, **Sep 2021 – Jun-2022**
- MAGDALENA ŠPOKOVÁ graduate student at the Faculty of Science, Masaryk University, Brno, Czech Republic, Co-supervised her research, which resulted in a first-author manuscript currently to be submitted to A&A. **from Sep 2020**

Teaching experience:

- GALAXY EVOLUTION at Heidelberg University
Convener in winter and summer semester 2018, 2019 (weekly seminar)
- GALACTIC AND EXTRAGALACTIC ASTRONOMY at Heidelberg University
Teaching assistant in summer semester 2017, 2018 (weekly exercises for master and graduate students)
- ASTRO-LAB at Heidelberg University (block course)
Teaching assistant in winter semester 2017 (lab course for undergraduate and graduate students)
- LOC AT THE A DECADE OF ESO WIDE-FIELD IMAGING SURVEYS at ESO, **Oct 2023**
- LOC AT THE MOSAIC 2019 MEETING at Heidelberg University, **Mar 2019**

**CONFERENCE
ORGANIZATION**

**CONFERENCES
TALKS**

- The RR Lyrae and Cepheid meeting 2024: Frontiers of Classical Pulsators – Theory and Observations**, Marrakesh, *Talk*: Perspectives on the inner Milky Way via RR Lyrae variables (invited talk) **Nov 2024**
- Abundance Gradients in the Local Universe**, Garching, *Talk*: Mapping of the Milky Way bar (contributed talk) **Apr 2024**
- The 55th Conference on Variable Stars Research**, Brno, *Talk*: The latest findings on RR Lyrae-type stars (invited talk) **Nov 2023**
- A Decade of ESO Wide-field Imaging Surveys**, Garching, *Talk*: 7D mapping and timing of the Milky Way bar (contributed talk) **Oct 2023**
- 40 years of the Galactic Bulge and beyond**, Elba, *Talk*: 7D mapping and timing of the Milky Way bar (contributed talk) **Sep 2023**
- RRLyr and Cepheid stars: Large-scale surveys as bridges between spectroscopy and photometry**, La Palma, *Talk*: The Orphan stellar stream in 7D using RR Lyrae stars (contributed talk) **Sep 2022**
- Streams 21: Constraints on Dark Matter**, New York, New York – online, *Talk*: The Orphan stream in 7D using RR Lyrae stars (contributed talk) **Feb 2021**
- RRL/Cep 2019 - Frontiers of Classical Pulsators: Theory and Observations**, Cloudcroft, New Mexico , *Talk*: Main and early shocks in RR Lyrae photometric light curves

	(contributed talk)	Oct 2019
	A Synoptic View of the Magellanic Clouds - VMC, Gaia and Beyond , ESO Garching, Poster: Photometric study of the stellar overdensity north from the Small Magellanic Cloud	Sep 2019
	RRL2017 Revival of the classical pulsators: from galactic structure to stellar interior diagnostics , Niepołomice, <i>Talk:</i> The Oosterhoff Dichotomy in the Galactic Bulge (contributed talk)	Sep 2017
	The 48th Conference on Variable Stars Research , Prague, <i>Talk:</i> Multiple variability in RR Lyrae stars (contributed talk)	Nov 2016
	Meeting of Young CAMK , Centrum Astronomiczne im. Mikołaja Kopernika, Warsaw, <i>Talk:</i> Blazhko effect in Galactic bulge RR Lyrae stars (contributed talk)	Feb 2016
	RRL2015 High-Precision Studies of RR Lyrae Stars , Visegrád, <i>Poster:</i> Analysis of light curve of LP Camelopardalis	Oct 2015
DEPARTMENTAL SEMINARS AND COLLOQUIA	Astromeeting OACN , Osservatorio Astronomico di Capodimonte, Napoli	July 2025
	Galaxy Evolution Seminar , Astronomisches Rechen-Institut, Heidelberg University, Heidelberg, Germany	May 2025
	Seminar , Jeremiah Horrocks Institute, University of Central Lancashire, Preston, United Kingdom	May 2025
	Seminar , Astronomical Institute of Czech Academy of Sciences, Ondrejov, Czech Republic	Oct 2022
	Astronomical seminar , Faculty of Science, Masaryk University, Brno, Czech Republic	Oct 2022
	ESO Informal Discussion , Garching bei Munich, Germany – online	Sep 2021
	Galaxy Coffee MPIA , Heidelberg, Germany – online	Mar 2021
	Gemini-South & CTIO Science coffee , La Serena, Chile – online	Oct 2020
	ARI Institute Colloquium , Astronomisches Rechen-Institut, Heidelberg University, Heidelberg, Germany	Jan 2020
	Hector Fellow Symposium , Heidelberg, <i>Talk:</i> Final Ph.D. presentation	Jul 2019
	Astronomical seminar , Faculty of Science, Masaryk University, Brno, Czech Republic	Oct 2018
	IMPRS Heidelberg seminar workshop 12th generation , Trifels, Germany	Apr 2018
	ARI Institute Colloquium , Astronomisches Rechen-Institut, Heidelberg University, Heidelberg, Germany	Jan 2017
PARTICIPATED WORKSHOPS	2023 MESA Summer School , Konkoly, Budapest, Hungary	Aug 2023
	2019 MESA Summer School , University of California, Santa Barbara, California, United States of America	Aug 2019
	IMPRS Heidelberg Summer school: Gaia Data & Science , Heidelberg University, Germany	Sep 2018
	Workshop: Near-Field Cosmology with the Dark Energy survey's DR1 and beyond , Chicago, Illinois, United States of America	Jun 2018
	Gaia Data Workshop , Heidelberg, Germany	Nov 2016
	MBA courses : Three courses as a part of the Hector Fellow Academy, focused on the soft skills and project management: PROJECTS, PEOPLE, VALUES at the Karlsruhe Institute of Technology, Karlsruhe, Germany	2018 – 2019

PUBLIC OUTREACH

- VYSKOV OBSERVATORY at Vyskov – Astronomer: public observations of the night sky and Sun using the telescopes **Summer 2013, 2014**
 - BRNO OBSERVATORY AND PLANETARIUM at Brno – Night Sky Guide: public observations of the night sky using the telescopes **Full year 2015**

Refereed Publications

- 37. Arellano Ferro, A., et al., including **Prudil, Z.**: The variable stars in the compact halo globular cluster NGC 5634 visited again, 2025, [MNRAS](#), **541**, 3146
 - 36. Kunder, A., **Prudil, Z.**, Monachesi, A., et al.: The Galactic bulge exploration: V. The Galactic Bulge exploration VI.: Gaia Enceladus/Sausage RR Lyrae stars in the inner-central stellar halo of the Milky Way, 2025, [AJ](#), **170**, 173
 - 35. **Prudil, Z.**, Debattista, V. P., Bernaldo e Silva, L., et al.: The Galactic bulge exploration: V. The Galactic Bulge exploration V.: The secular spherical and X-shaped Milky Way bulge, 2025, [A&A](#), **699**, A349
 - 34. **Prudil, Z.**, Kunder, A., Bernaldo e Silva, L., et al.: The Galactic bulge exploration: IV. RR Lyrae stars as tracers of the Galactic bar: 3D and 5D analysis and extinction variation, 2025, [A&A](#), **695**, A211
 - 33. **Prudil, Z.**, & Arellano Ferro, A.: On the membership of variable stars in Galactic globular clusters: the Oosterhoff gap, 2024, [MNRAS](#), **534**, 3654-3664
 - 32. Arellano Ferro, A., et al., including **Prudil, Z.**: The Variable Stars Population of the Extended Young Globular Cluster NGC 1851, 2024, [RMxAA](#), **60**, 381-396
 - 31. Luongo, E., et al., including **Prudil, Z.**: An 'alien' called the Oosterhoff dichotomy?, 2024, [A&A](#), **690**, L17
 - 30. Kunder, A., **Prudil, Z.**, Skaggs, C., et al.: The Galactic Bulge Exploration. III. Calcium Triplet Metallicities for RR Lyrae Stars, 2024, [AJ](#), **168**, 139
 - 29. Arellano Ferro, A., et al., including **Prudil, Z.**: The variable stars in the field of the bulge cluster NGC 6558, 2024, [MNRAS](#), **532**, 2159-2173
 - 28. Zak, J., et al., including **Prudil, Z.**: Stellar obliquity measurements of six gas giants. Orbital misalignment of WASP-101b and WASP-131b, 2024, [A&A](#), **686**, A147
 - 27. **Prudil, Z.**, Smolec, R., Kunder, A., et al.: The Galactic bulge exploration. II. Line-of-sight velocity templates for single-mode RR Lyrae stars, 2024, [A&A](#), **685**, A153
 - 26. **Prudil, Z.**, Kunder, A., Dékány, I., et al.: The Galactic bulge exploration. I. The period-absolute magnitude-metallicity relations for RR Lyrae stars for G_{BP} , V , G , G_{RP} , I , J , H , and K_s passbands using Gaia DR3 parallaxes, 2024, [A&A](#), **684**, A176
 - 25. Butler, E., Kunder, A., **Prudil, Z.**, et al.: RR Lyrae Stars Belonging to the Candidate Globular Cluster Patchick 99, 2024, [ApJL](#), **963**, L33
 - 24. Kunder, A., **Prudil, Z.**, Covey, K. R., et al.: The Milky Way Bulge Extra-tidal Star Survey: BH 261 (AL 3), 2024, [AJ](#), **167**, 21
 - 23. Arellano Ferro, A., **Prudil, Z.**, Yepez, M. A., et al.: Variable stars in the field of the Galactic bulge globular cluster NGC 6522, 2023, [Ap&SS](#), **368**, 91
 - 22. Lemasle, B., et al., including **Prudil, Z.**: Tracing the Milky Way warp and spiral arms with classical Cepheids, 2022, [A&A](#), **668**, A40
 - 21. **Prudil, Z.** et al.,: Milky Way archaeology using RR Lyrae and type II Cepheids II. Unbound RR Lyrae stars, and mass of the Milky Way, 2022, [A&A](#), **664**, A148

20. Molnár, L. et al., including **Prudil, Z.**: First results on RR Lyrae stars with the TESS space telescope: untangling the connections between mode content, colors and distances, 2021, [ApJS](#), **258**, 8
19. Braga, V. F. et al., including **Prudil, Z.**: On the Use of Field RR Lyrae as Galactic Probes. V. Optical and radial velocity curve templates, 2021, [ApJ](#), **919**, 85
18. Fabrizio, M. et al., including **Prudil, Z.**: On the use of field RR Lyrae as Galactic probes: IV. New insights into and around the Oosterhoff dichotomy, 2021, [ApJ](#), **919**, 118
17. Crestani, J. et al., including **Prudil, Z.**: On the Use of Field RR Lyrae as Galactic Probes. III. The α -element abundances, 2021, [ApJ](#), **914**, 10
16. **Prudil, Z.** et al.: Milky Way archaeology using RR Lyrae and type II Cepheids I. The Orphan stream in 7D using RR Lyrae stars, 2021, [A&A](#), **648**, A78
15. Crestani, J. et al., including **Prudil, Z.**: On the Use of Field RR Lyrae as Galactic Probes. II. A New ΔS Calibration to Estimate Their Metallicity, 2021, [ApJ](#), **908**, 20
14. Savino, A., Koch, A., **Prudil, Z.**, Kunder, A., Smolec, R.: The age of the Milky Way inner stellar spheroid from RR Lyrae population synthesis, 2020, [A&A](#), **641**, A96
13. Bono, G. et al., including **Prudil, Z.**: On the Metamorphosis of the Bailey diagram for RR Lyrae stars, 2020, [ApJL](#), **896**, L15
12. Skarka, M., **Prudil, Z.**, Jurcsik, J.: Blazhko effect in the Galactic bulge fundamental mode RR Lyrae stars II: Modulation shapes, amplitudes and periods, 2020, [MNRAS](#), **494**, 1237
11. Hanke, M., Koch, A., **Prudil, Z.**, Grebel, E. K., Bastian, U.: Purveyors of fine halos. II. Chemodynamical association of halo stars with Milky Way globular clusters, 2020, [A&A](#), **637**, A98
10. **Prudil, Z.**, Dékány, I., Grebel, E. K., Kunder, A.: Evidence for Galactic disk RR Lyrae stars in the Solar neighborhood, 2020, [MNRAS](#), **492**, 3408
9. **Prudil, Z.**, Dékány, I., Smolec, R., Catelan, M., Grebel, E. K., Kunder, A.: Humps and bumps: The effects of shocks on the optical light curves of fundamental-mode RR Lyrae stars, 2020, [A&A](#), **635**, A66
8. **Prudil, Z.**, Dékány, I., Grebel, E. K., Catelan, M., Skarka, M., Smolec, R.: On the Oosterhoff dichotomy in the Galactic bulge: II. kinematical distribution, 2019, [MNRAS](#), **487**, 3270
7. **Prudil, Z.**, Skarka, M., Liška, J., Grebel, E. K., Lee, C.-U.: Candidates for RR Lyrae in binary systems from the OGLE Galactic bulge survey, 2019, [MNRAS](#), **487**, L1
6. **Prudil, Z.**, Dékány, I., Catelan, M., Smolec, R., Grebel, E. K., Skarka, M.: On the Oosterhoff dichotomy in the Galactic bulge: I. Spatial distribution, 2019, [MNRAS](#), **484**, 4833
5. **Prudil, Z.**, Grebel, E. K., Dékány, I., Smolec, R.: Photometric study of the SMCNOD using variable stars from the OGLE-IV survey, 2018, [MNRAS](#), **480**, 669
4. **Prudil, Z.**, Skarka, M.: Blazhko effect in the Galactic bulge fundamental mode RR Lyrae stars I: Incidence rate and differences between modulated and non-modulated stars, 2017, [MNRAS](#), **466**, 2602
3. **Prudil, Z.**, Smolec, R., Skarka, M., Netzel, H.: Peculiar double-periodic pulsation in RR Lyrae stars of the OGLE collection - II. Short-period stars with a dominant radial fundamental mode, 2017, [MNRAS](#), **465**, 4074

- Non-refereed Publications**
2. Smolec, R., **Prudil, Z.**, Skarka, M., Bakowska, K.: Peculiar double-periodic pulsation in RR Lyrae stars of the OGLE collection - I. Long-period stars with dominant radial fundamental mode, 2016, [MNRAS, 461, 2934](#)
 1. Skarka, M., Liška, J., Auer, R. F., **Prudil, Z.**, Juránová, A. Sódor, Á.: The SERMON project: 48 new field Blazhko stars and an investigation of modulation-period distribution, 2016, [A&A, 592, A144](#)

 18. Butler, E., et al., including **Prudil, Z.** Spectroscopic follow-up of the candidate bulge globular cluster Patchick 99, 2023, [AAS, 241, 402.02](#)
 17. Kunder, A., et al., including **Prudil, Z.**: A dynamical study of stars in and around the bulge globular cluster BH 261, 2023, [AAS, 241, 320.03](#)
 16. Lemasle, B., et al., including **Prudil, Z.**: Galactic Cepheids as tracers of the thin disk in the Gaia area, 2022, [sf2a.conf, 263-267](#)
 15. **Prudil, Z.**: The Orphan stellar stream in 7D using RR Lyrae stars, 2022, [VMSAI, 2, 39](#)
 14. Molnár, L. et al., including **Prudil, Z.**: A comprehensive look at RR Lyrae stars through high-precision photometry and astrometry, 2021, in TESS Science Conference II, [Zenodo](#)
 13. **Prudil, Z.**, Dékány, I., Catelan, M., Grebel, E. K., Smolec, R., Skarka, M.: Spatial and Kinematical Study of the Oosterhoff Dichotomy in the Galactic Bulge, 2021, in RR Lyrae/Cepheid 2019: Frontiers of Classical Pulsators, ed. Karen Kinemuchi, Catherine Lovekin, Hilding Neilson, and Kathy Vivas, [ASPC, Vol. 529, 340](#)
 12. Jurcsik, J., Szabó, P., **Prudil, Z.**, Skarka, M., Hajdu, G.: On the Phase-Modulation Properties of Galactic Bulge RRab Stars, 2021, in RR Lyrae/Cepheid 2019: Frontiers of Classical Pulsators, ed. Karen Kinemuchi, Catherine Lovekin, Hilding Neilson, and Kathy Vivas, [ASPC, Vol. 529, 329](#)
 11. Skarka M., **Prudil, Z.**, Jurcsik J.: The Blazhko Effect in Galactic Bulge Fundamental Mode RR Lyrae Stars, 2021, in RR Lyrae/Cepheid 2019: Frontiers of Classical Pulsators, ed. Karen Kinemuchi, Catherine Lovekin, Hilding Neilson, and Kathy Vivas, [ASPC, Vol. 529, 130](#)
 10. **Prudil, Z.**, Smolec, R., Catelan, M., Dékány, I., Grebel, E. K., Kunder, A.: Main and Early Shocks in RR Lyrae Photometric Light Curves, 2021, in RR Lyrae/Cepheid 2019: Frontiers of Classical Pulsators, ed. Karen Kinemuchi, Catherine Lovekin, Hilding Neilson, and Kathy Vivas, [ASPC, Vol. 529, 93](#)
 9. Salinas ,R., Hajdu ,G., **Prudil, Z.**, Howell ,S., Catelan, M.,: A Speckle Interferometric Search for a Companion to the RR Lyrae Star UV Oct, 2020, [RNAAS, 4, 143](#)
 8. Skarka, M., **Prudil, Z.**, Liška, J.,: Binary stars with RR Lyrae components - new candidates in the Galactic bulge, 2020, in Contributions of the Astronomical Observatory Skalnaté Pleso, [Vol. 50, 442-445](#)
 7. Skarka, M., **Prudil, Z.**,: Photometric Differences Between Modulated and Non-Blazhko ab-type RR Lyrae Stars in the Galactic Bulge, 2018, in The RR Lyrae 2017 Conference. Revival of the Classical Pulsators: from Galactic Structure to Stellar Interior Diagnostics, ed. R. Smolec, K. Kinemuchi, & R. I. Anderson, [Vol. 6, 319-320](#)

6. **Prudil, Z.**, Grebel, E. K., Dékány, I. Smolec, R., Skarka, M.: The Oosterhoff Dichotomy in the Galactic Bulge, 2018, in The RR Lyrae 2017 Conference. Revival of the Classical Pulsators: from Galactic Structure to Stellar Interior Diagnostics, ed. R. Smolec, K. Kinemuchi, & R. I. Anderson, [Vol. 6, 37-41](#)
5. Skarka M., et al., including **Prudil, Z.**: CzeV - The Czech Variable Star Catalogue, 2017, [OEJV, 185, 1](#)
4. Smolec, R. et al., including **Prudil, Z.**: Petersen diagram revolution, 2017, in Wide-Field Variability Surveys: A 21st Century Perspective - 22nd Los Alamos Stellar Pulsation - Conference Series Meeting, San Pedro de Atacama, Chile, Edited by Catelan, M.; Gieren, W.; [EPJ Web of Conferences, Volume 152, id.06003](#)
3. **Prudil, Z.**: Multiple variability in RR Lyrae stars, 2017, in proceedings of the 48th conference on Variable Stars Research, [Open European Journal on Variable Stars, 180, 47](#)
2. **Prudil, Z.**, Skarka, M., Zejda, M.: Analysis of light curve of LP Camelopardalis, 2016, [Communications of the Konkoly Observatory Hungary, 105, 213](#)
1. Liška, J., Skarka, M., Auer, R. F., **Prudil, Z.** & Juránová, A.: Possible candidates for multiple occurrence of variable stars in the VSX catalogue, 2015, [OEJV, 170, 1](#)