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Short bio

I am an Assistant Professor at the University of Warwick working on white dwarf and hot subdwarf stars. I have been involved in research since very early in my academic career, having joined the White Dwarf Stars research group in my home university during my first year of undergraduate studies in 2009. My work as a student contributed to an eightfold increase in the number of known white dwarfs, advancing our knowledge about these stellar fossils and enabling many works relying on white dwarfs as astrophysical tools. During my first postdoc, I focused on hot subdwarfs and used observational data to obtain direct proof that they form from binary interaction, resolving a then open question about hot subdwarf formation. I also showed that hot subdwarf stars can contribute significantly to the supernova Ia rate in our galaxy. In the more recent years, I have also been working on interacting white dwarf binaries, with particular focus on magnetic systems, looking to understand possible interplays between binarity and magnetism and their overall effects on stellar evolution.

Research Interests

White dwarf and hot subdwarf stars as probes of stellar evolution.
Evolved compact stars in binaries as potential gravitational wave sources and supernova progenitors.
Stellar variability and magnetism.

Academic Education

08/2014 – 06/2018	Ph.D. Sciences, with distinction, Univ. Fed. do Rio Grande do Sul, Brazil Thesis: White Dwarf and Subdwarf Stars in the Sloan Digital Sky Survey Supervisor: S. O. Kepler
03/2013 – 08/2014	M. Sc. Astrophysics, Univ. Fed. do Rio Grande do Sul, Brazil Thesis: *Linhas-satélite no espectro de hidrogênio perturbado por prótons* (Satellite lines in the spectrum of hydrogen perturbed by protons) Supervisor: S. O. Kepler
02/2009 – 01/2013	B.S.Physics, Summa cum Laude, Univ. Fed. do Rio Grande do Sul, Brazil Thesis: *Estudo do efeito de colisões H-H$^+$ no espectro do átomo de hidrogênio* (A study of the effect of H-H$^+$ collisions in the hydrogen atom spectrum)

Additional training

09/2025	Introduction to Management *Imperial College Business School*
10/2024	Leadership Effectiveness *Imperial College Business School*
10/2024	Media training *Media Woman*

Professional Experience

10/2023 – present	Assistant Professor, University of Warwick (UK)
11/2020 – 09/2023	Research Fellow, University of Warwick (UK)
07/2018 – 11/2020	Postdoctoral Research Fellow, Universität Potsdam (Germany)
04/2017 – 09/2017	Visiting Academic, University of Warwick (UK)
03/2015 – 07/2015	Substitute Assistant Professor, Univ. Fed. do Rio Grande do Sul (Brazil)

Leadership roles

06/2019 – present	Co-lead of the 4MOST subsurvey Hot Subdwarf Stars.
11/2018 – present	Co-lead of the TESS TASC Working Group 8.4, Evolved Compact Binaries.
07/2022 – 09/2023	Head of 4MOST IWG6, Data Curation and Data Release.
06/2019 – 07/2022	Quality Control Scientist and head of the Quality Control Team for 4MOST.

Teaching

2023/Spring – present	Astrophysics Laboratory II and Skills (PX283, 8 hours/week)
2019/Summer	Research Workshop on Evolved Stars (Universität Potsdam, 12 hours)
2015/1	Astronomy Education (Univ. Fed. do Rio Grande do Sul, 4 hours/week)
2015/1	Fundamental Astronomy (Univ. Fed. do Rio Grande do Sul, 4 hours/week)
2015/1	Exploring the Universe: from quarks to quasars (Univ. Fed. do Rio Grande do Sul, 12 hours)

Outreach

2022 – present	Volunteer with the University of Warwick Planetarium, carrying out public engagement with schools and youth groups in the Warwickshire area.
2017 – present	astropontos.org founder, administrator, and regular author
2025	Invited talks for four Astronomical Societies (Newton, Flamsteed, Cardiff [jointly with Dr Thomas Wilson], Stratford-upon-Avon)
2024	Invited talks for seven Astronomical Societies (Cardiff, Coventry and Warwickshire, Loughton, Broomsgroove, Mexborough & Swinton, Crawley, Knowle)
2024	Invited speaker at the European Astrofest
2023	Pint of Science Coventry event manager
2022	Invited talk for the Astronomy Society at Warwick
2019, 2022	skypeascientist.com volunteer
2019	Invited talk for the Berlin Astronomy & Astrophotography Meetup
2015 – 2017	astrobites.org regular author

Publications

101 publications, 96 of which are refereed, of those **17 as first author** (3 featured in press releases).
Total citations: 3701; **h-index: 29**. **Full publication list presented at the end of this CV.**

Supervised and co-supervised students

01/2025 – present	PhD student Gabriela da Rosa (University of Warwick) *Volume-complete sample of Extremely-low-mass white dwarf stars*
09/2024 – present	PhD student Taf Zivave (University of Warwick) *White dwarf stars in NGTS and TESS*
02/2023 – 09/2025	PhD student James Munday (University of Warwick) *The population of double white dwarf binaries*
08/2024 – 09/2024	Summer Student Mo Juanroyee (University of Warwick) *Hunting for close stellar binaries: gravitational wave sources and SN Ia progenitors*
08/2024 – 09/2024	Summer Student Finlay Plumb (University of Warwick) *Applying statistical methods to search for binary stars*
10/2023 – 05/2024	BSc students Morgan Jones & Sebastian Smith (University of Warwick) *Variability in Nearby Binary White Dwarf Stars*
07/2023 – 09/2023	Summer Student Saurav Ruparelia (University of Warwick) *Understanding the origin of stars that should not exist*
07/2022 – 09/2022	Summer Student Stefano Beni (University of Warwick) *AM CVn stars in ZTF*
07/2022 – 08/2022	Summer Student Phoebe Ryder (University of Warwick) *The forgotten type Ia supernova progenitors*
01/2020 – 03/2021	Masters student Harry Dawson (Universität Potsdam),

The Complete 500 pc Hot Subdwarfs Sample

04/2018 – 01/2021 Masters student Alexander Bastian (Universität Potsdam)
Kinematics of Subdwarf Stars in Gaia DR2

Organisation of Scientific Meetings

04/2025 Conference for Undergraduate Women and Non-binary Physicists (Local Organising Committee)
09/2024 Celebrating 21 years of Astronomy at Warwick: the legacy of Prof. Tom Marsh (Lead Organiser)
07/2024 National Astronomy Meeting 2024 (Scientific Organising Committee)
07/2024 23rd European White Dwarf Workshop (Scientific Organising Committee)
07/2022 Know Your Neighbour: White Dwarf Researchers in the UK (NAM 2022, Organising Committee)
06/2022 10th Meeting on Hot Subdwarfs and Related Objects (Scientific Organising Committee)
2021–2022 O-MESS: Online Meetings on Evolved Stars and Systems (Organising Committee)
08/2019 Stars on the Run II (Local Organising Committee)

Talks at international conferences

Invited

05/2025 *Meeting Summary*, 12th Meeting on Hot Subdwarfs and Related Objects, Little Switzerland (USA)
09/2024 *Fantastic binaries and how to find them*, XLVII Annual Meeting of the Brazilian Astronomical Society, Aguas de Lindoia (Brazil)
06/2024 *Pulsars and propellers: X-ray and radio emission from the most mysterious white dwarf binaries*, The X-ray mysteries of neutron stars and white dwarfs, Madrid (Spain)
03/2024 *The Astrophysics of White Dwarf Stars*, Current challenges in the physics of white dwarfs, Santa Fe (USA)
11/2023 *Binarity is all around us: searching and characterising the late stages of binary evolution*, XVII Latin American Regional IAU Meeting, Montevideo (Uruguay)
08/2023 *White Dwarf Stars*, 2023 STFC Summer School, Hull (UK)
11/2022 *Towards a volume-limited all-sky sample of extremely low-mass white dwarfs*, White Dwarfs from Physics to Astrophysics Conference, Santa Barbara (USA)
06/2022 *Standard and Alternative Pathways for Hot Subdwarf Formation*, 10th Meeting on Hot Subdwarfs and Related Objects, Liège (Belgium)
03/2019 *Compact binaries in the TESS era, Astroplate III – Large surveys with small telescopes: Past, Present, and Future*, Bamberg (Germany)

Contributed

07/2025 *Characterising the population of binary white dwarf stars with astrometry, photometry and spectroscopy*, Binary Stars in the Space Era, Keele (UK)
10/2023 *Searching for magnetic fields in merger products*, Stellar Magnetic Fields from Protostars to Supernovae, Garching (Germany)
09/2023 *Hot subdwarfs with 4MOST: what to expect*, 11th Meeting on Hot Subdwarfs and Related Objects, Armagh (UK)
06/2023 Massive white dwarf binaries with BlackGEM, BlackGEM Science Team Meeting (online)
06/2023 *A (successful!) targeted search for binary white dwarf pulsars*, 1st Vasto Accretion Meeting, Vasto (Italy)
09/2022 *Data Curation and Data Release*, 2022 4MOST All Hands Meeting, Potsdam (Germany)
08/2022 *Searching for AR Sco 2: are other white dwarf pulsars out there?,* 22nd European Workshop on White Dwarfs, Tuebingen (Germany)
06/2022 *Observational evidence that binary interaction is always required to form hot subdwarf stars*, 10th Meeting on Hot Subdwarfs and Related Objects, Liège (Belgium)
08/2021 *HD 265435: a new candidate supernova progenitor in TESS*, TESS Science Conference II (online)

07/2021 *Uncovering white dwarfs that only binary evolution can explain*, Summer workshop on white dwarfs and related objects (online)
09/2019 *Gaia DR2 catalogue of extremely low-mass white dwarf candidates,* Compact White Dwarf Binaries, Yerevan (Armenia)
06/2019 *Photometric variability of binary hot subdwarf stars: from the ground to TESS,* 9th Meeting on Hot Subdwarfs and Related Objects, Hendaye (France)
09/2018 *The sdA puzzle: solved?,* 21th European White Dwarf Workshop, Austin (USA)
07/2018 *The sdA puzzle: solved?,* ESO Workshop: A Revolution in Stellar Physics with Gaia and Large Surveys, Warsaw (Poland)
07/2017 *Are sdAs He-stars?,* 8th Meeting on Hot Subdwarfs and Related Objects, Cracow (Poland)
09/2016 *What is the nature of sdA stars?,* Precision Spectroscopy, Porto Alegre (Brasil)
07/2016 *What is the nature of sdA stars?,* 20th European White Dwarf Workshop, Warwick (UK)

Invited seminars and colloquia

04/2025 *White dwarf pulsars and (possibly) related objects*, colloquium at the University of Oxford (UK)
04/2025 *Fantastic binaries and how to find them*, Institute of Science and Technology Austria (ISTA, Austria)
11/2024 *Fantastic binaries and how to find them*, seminar at the University of Oxford (UK)
10/2024 *Fantastic binaries and how to find them*, Anton Pannekoek Institute for Astronomy, University of Amsterdam (The Netherlands)
10/2024 *Radio emission from white dwarf systems*, Netherlands Institute for Radio Astronomy (ASTRON, The Netherlands)
11/2023 *Searching for SN Ia progenitors in TESS*, MPA Garching (Germany)
05/2023 *What happens when stars can't keep apart: observing the effects of binary evolution*, University of Warwick (UK)
04/2023 *Observational clues for the origin of magnetic fields in white dwarfs*, University of Hertfordshire (Hatfield, UK)
11/2022 *The surprising outcomes of binary evolution*, Armagh Observatory and Planetarium (Armagh,UK)
06/2021 *Stars don't self-isolate: what only binary evolution can explain*, University of Sheffield (UK)
10/2021 *Alone but not lonely: Observational evidence that binary interaction is always required to form hot subdwarf stars*, Universidade de S̃ao Paulo (Brazil)
10/2020 *Stars don't self-isolate: the importance of binary interaction*, Univ. Fed. do Rio Grande do Sul (Brazil)
10/2020 *Alone but not lonely: Observational evidence that binary interaction is always required to form hot subdwarf stars*, Gemini South (Chile)

Awards

01/2022 Physics Postdoc Prize (Department of Physics, University of Warwick)
09/2019 Best Thesis Award, Brazilian Astronomical Society (SAB)
09/2019 Honourable mention in the CAPES Best Thesis Award, Brazilian Ministry of Education

Fellowships and Funding

06/2023 Royal Society University Research Fellowship (£1.4M funding for 8 years)
04/2023 STFC Ernest Rutherford Fellowship (£500k funding for 5 years; declined)
02/2023 Horizon Europe Marie Curie Fellowship (€250k funding for 2 years; declined)
10/2022 Warwick Prize Fellowship, five-year fellowship competitively awarded by the Astronomy & Astrophysics group at the University of Warwick
01/2019 KoUP Cooperation Funding, awarded by the University of Potsdam to initiate collaboration with the Universidade Federal do Rio Grande do Sul in Brazil (€ 8,910).
06/2018 Gemini Science Fellowship (declined)
08/2014 CNPq Scholarship, awarded by the Brazilian Ministry of Sciences to PhD candidates based on CV ranking (ranked 1st in the institution, R$ 122 880)

04/2017 PDSE/CAPES Scholarship, awarded by the Brazilian Ministry of Education to undertake research at the University of Warwick (£ 10 662)

03/2013 CNPq Scholarship, awarded by the Brazilian Ministry of Sciences to Masters candidates based on exam ranking (ranked 1st in the institution, R$ 36 000)

Telescope time

Total observing time as Principal Investigator:

- 38 nights at 2-m telescopes (OPD)
- 35 nights at 4-m telescopes (SOAR, NTT)
- 16 nights at 8-m telescopes (VLT, Gemini)
- 12 orbits with HST.

Over 200 additional nights obtained as co-I.

* As a guideline, each night in a 2, 4, or 8 m telescope is worth approximately $2000, $10000, and $50000, respectively, thus the amount of nights obtained as PI are equivalent to over $1M of funding in telescope time.

Full list of approved telescope proposals presented at the end of this CV.

Other Services

Editor

2022 Proceedings of the 10th Meeting on Hot Subdwarfs and Related Objects.

Referee

2025 – present	Publications of the Astronomical Society of the Pacific
2025 – present	SCIENCE CHINA Physics, Mechanics & Astronomy
2015, 2018 – present	Monthly Notices of the Royal Astronomical Society
2022– present	Astronomy & Astrophysics
2019 – present	Nature Astronomy
2019 – present	Astrophysical Journal
2020	Astronomische Nachrichten

Departmental Services

2014 – 2016	Graduate Student Representative
2011 – 2012	Undergraduate Student Representative

References

Prof. Boris Gänsicke, University of Warwick, UK boris.gaensicke@warwick.ac.uk

Prof. Stephan Geier, Universität Potsdam, Germany sgeier@astro.physik.uni-potsdam.de

Prof. S. O. Kepler, Universidade Federal do Rio Grande do Sul, Brazil kepler@if.ufrgs.br

Prof. Danny Steeghs, University of Warwick, UK D.T.H.Steeghs@warwick.ac.uk

Full publication list

(for up to date metrics, visit https://bit.ly/30W4YXW)

1. Refereed publications

a) First author

Pelisoli, I., Brown, A. J., Castro Segura, N. and 24 colleagues (2025), *Constraints on an optical counterpart for the long-period radio transient GPM J1839-10*, MNRAS, in *press.*

Pelisoli, I., Marsh, T. R., Tovmassian, G. and 24 colleagues (2025), *A targeted search for binary white dwarf pulsars using Gaia and WISE*, MNRAS, 540, 821.

Pelisoli, I., Chomiuk, L., Strader, J. and 22 colleagues (2024), *A survey for radio emission from white dwarfs in the VLA Sky Survey*, MNRAS, 531, 1805.

Pelisoli, I., Sahu, S., Lyutikov, M. and 13 colleagues, *Unveiling the white dwarf in J191213.72 - 441045.1 through ultraviolet observations*, MNRAS, 527, 3826.

Pelisoli, I., Marsh T.R., Buckley, D.A.H. and 19 colleagues (2023), *A 5.3-min-period pulsing white dwarf in a binary detected from radio to X-rays*, Nature Astronomy, 7, 931.
Press release: https://warwick.ac.uk/newsandevents/pressreleases/?newsItem=8a17841a8895e8e30188bf9533d5041e

Pelisoli, I., Marsh, T.R., Parsons, S. G, and 14 colleagues (2022), *Long-term photometric monitoring and spectroscopy of the white dwarf pulsar AR Scorpii*, MNRAS, 516, 5052.

Pelisoli, I., Dorsch, M., Heber, U. , and 6 colleagues (2022), *Discovery and analysis of three magnetic hot subdwarf stars: evidence for merger-induced magnetic fields*, ,MNRAS, 515, 2496.

Pelisoli, I., Marsh, T.R., Dhillon, V.S., and 9 colleagues (2022), *Found: a rapidly spinning white dwarf in LAMOST J024048.51+195226.9*, MNRAS Letters, 509, L31.
Press release: https://warwick.ac.uk/newsandevents/pressreleases/high-speed_propeller_star/

Pelisoli I., Marsh T.R., Ashley R.P., and 15 colleagues (2021), *Optical detection of the rapidly spinning white dwarf in V1460 Her*, MNRAS, 507, 6132.

Pelisoli, I., Neunteufel, P., Geier, S., and 8 colleagues (2021), *A hot subdwarf-white dwarf super-Chandrasekhar candidate supernova Ia progenitor*, Nature Astronomy, 5, 1052.
Press release: https://warwick.ac.uk/newsandevents/pressreleases/teardrop_star_reveals

Pelisoli, I., Vos, J., Geier, S., Schaffenroth, V., and Baran, A.S. (2020), *Alone but not lonely: Observational evidence that binary interaction is always required to form hot subdwarf stars*, A&A, 642, A180.

Pelisoli, I. and Vos, J. (2019), *Gaia Data Release 2 catalogue of extremely low-mass white dwarf candidates*, MNRAS, 488, 2892.

Pelisoli, I., Bell, K.J., Kepler, S.O., and Koester, D. (2019), *The sdA problem - III. New extremely low-mass white dwarfs and their precursors from Gaia astrometry*, MNRAS, 482, 3831.

Pelisoli, I., Kepler, S.O., Koester, D., and 3 colleagues (2018), *The sdA problem - II. Photometric and spectroscopic follow-up*, MNRAS, 478, 867.

Pelisoli, I., Kepler, S.O., and Koester, D. (2018), *The sdA problem - I. Physical properties*, MNRAS, 475, 2480.

Pelisoli, I., Santos, M.G., and Kepler, S.O. (2015), *Unified line profiles for hydrogen perturbed by collisions with protons: satellites and asymmetries*, MNRAS, 448, 2332.

b) Second and third author

Castro Segura, N., Pelisoli, I., Gänsicke, B. T., and 21 colleagues (2025), *A Sibling of AR Scorpii: SDSS J230641.47+244055.8 and the Observational Blueprint of White Dwarf Pulsars*, MNRAS, *in press.*

Munday, J., **Pelisoli, I.**, Tremblay, P.-E., and 14 colleagues (2025), *The DBL Survey II: towards a mass–period distribution of double white dwarf binaries*, MNRAS, 541, 3494.

Hakala, P., **Pelisoli, I.**, Gänsicke, B. T., and 5 colleagues (2025), *ASASSN–14dx: a cataclysmic variable harbouring a massive pulsating white dwarf*, MNRAS, 540, 838.

Munday, J., Pakmor, R., **Pelisoli, I.**, and 9 colleagues (2025), *A super-Chandrasekhar mass type Ia supernova progenitor at 49 pc set to detonate in 23 Gyr*, NatAs, 9, 872.

Antunes Amaral, L., Vuckovic, M., **Pelisoli, I.**, and 3 colleagues (2025), *Searching for new variable white dwarfs: The discovery of the three new pulsating and three new binary systems*, A&A, 694, A246.

Pakmor, R., **Pelisoli, I.**, Justham, S., and 9 colleagues (2024), *Large-scale ordered magnetic fields generated in mergers of helium white dwarfs*, A&A, 691, A179.

Munday, J., **Pelisoli, I.**, Tremblay, P.-E., and 8 colleagues (2024), *The DBL Survey I: discovery of 34 double-lined double white dwarf binaries*, MNRAS, 532, 2534.

Uzundag, M., Krzesinski, J., **Pelisoli, I.**, and 5 colleagues (2024), *A comprehensive search for hot subdwarf stars using Gaia and TESS. I. Pulsating hot subdwarf B stars*, A&A, 684, A118.

Schaffenroth, V., Barlow, B. N., **Pelisoli, I.**, and 2 colleagues (2023), *Hot subdwarfs in close binaries observed from space. II. Analyses of the light variations*, A&A, 673, 90.

Schaffenroth, V., **Pelisoli, I.**, Barlow, and 2 colleagues (2022), *Hot subdwarfs in close binaries observed from space I: orbital, atmospheric, and absolute parameters and the nature of their companions*, A&A, 666, 182.

Culpan, R., Geier, S., **Pelisoli, I.** and 3 colleagues (2022), *The population of hot subdwarf stars studied with Gaia -- IV. Catalogues of hot subluminous stars based on Gaia EDR3*, A&A, 662, 40.

Geier, S., Dorsch, M., **Pelisoli, I.** and 3 colleagues (2022), *Radial velocity variability and the evolution of hot subdwarf stars*, A&A, 661, 113.

Dorsch, M., Reindl, N., **Pelisoli, I.** and 4 colleagues (2022), *Discovery of a highly magnetic He-sdO star from a double-degenerate binary merger*, A&A Letters, 658, 9.

Vos, J., **Pelisoli, I.**, Budaj, J., and 10 colleagues (2021), *Looking into the cradle of the grave: J22564-5910, a young post-merger hot subdwarf?*, A&A, 655, 43.

Culpan, R., **Pelisoli, I.**, and Geier, S. (2021), *Clean catalogues of blue horizontal-branch stars using Gaia EDR3*, A&A, 654, 507.

Kepler, S.O., Koester, D., **Pelisoli, I.**, Romero, A.D., and Ourique, G. (2021), *White dwarf and subdwarf stars in the Sloan Digital Sky Survey Data Release 16*, MNRAS, 507, 4646.

Kepler, S.O., **Pelisoli, I.**, Koester, D., and 6 colleagues (2019), *White dwarf and subdwarf stars in the Sloan Digital Sky Survey Data Release 14*, MNRAS, 486, 2169.

Campos, F., **Pelisoli, I.**, Kamann, S., and 11 colleagues (2018), *Outliers: multicolour photometry guiding the search for evolved binary systems in the globular cluster 47 Tucanae*, MNRAS, 481, 4397.

Bell, K.J., **Pelisoli, I.**, Kepler, S.O., and 8 colleagues (2018), *The McDonald Observatory search for pulsating sdA stars. Asteroseismic support for multiple populations*, A&A, 617, A6.

Tucker, M.A., Fleming, S.W., **Pelisoli, I.**, and 10 colleagues (2018), *White dwarf variability with gPhoton: pulsators*, MNRAS, 475, 4768.

Kepler, S.O., **Pelisoli, I.**, Koester, D., and 7 colleagues (2016), *New white dwarf and subdwarf stars in the Sloan Digital Sky Survey Data Release 12*, MNRAS, 455, 3413.

Kepler, S.O., **Pelisoli, I.**, Koester, D., and 11 colleagues (2015), *New white dwarf stars in the Sloan Digital Sky Survey Data Release 10*, MNRAS, 446, 4078.

Kepler, S.O., **Pelisoli, I.**, Jordan, S., and 10 colleagues (2013), *Magnetic white dwarf stars in the Sloan Digital Sky Survey*, MNRAS, 429, 2934.

Kepler, S.O., **Pelisoli, I.**, Peçanha, V., and 14 colleagues (2012), *Seismology of a Massive Pulsating Hydrogen Atmosphere White Dwarf*, ApJ, 757, 177.

c) Other

Kurpas, M., Dorsch, M., Geier, S., and 12 colleagues including **Pelisoli, I.** (2025), *The twin red giant branch system BD+20 5391 A case study of low-mass double-core evolution*, A&A, *in press.*

Krzesinski, J., Uzundag, M., Kumari, G. A., and 9 colleagues including **Pelisoli, I.** (2025), *A comprehensive search for hot subdwarf stars using Gaia and TESS: II. Uncovering new pulsators and close binary systems*, A&A, 700, A71.

Caliskan, O., Uzundag, M., Kilic, M., and 10 colleagues including **Pelisoli, I.** (2025), *Asteroseismology of WD J004917.14-252556.81, the Most Massive Pulsating White Dwarf*, ApJ, 988, 32.

Chickles, E. T., Burdge, K. B., Chakraborty, J., and 37 colleagues including **Pelisoli, I.** et al. (2025), *A Gravitational-wave-detectable Candidate Type Ia Supernova Progenitor*, ApJ, 987, 206.

Castro Segura, N., Irving, Z. A., Vincentelli, F. M., and 14 colleagues including **Pelisoli, I.** (2025), *Bridging the gap: OPTICAM reveals the hidden spin of the WZ Sge star GOTO 065054.49+593624.51*, MNRAS, 541, L28.

Kennedy, M. R., Callanan, P., Garnavich, P. M., and 19 colleagues including **Pelisoli, I.** (2025), *Analysis of optical spectroscopy and photometry of the type I X-ray bursting system UW CrB*, OJAp, 8, 71.

Lyman, J. D., Dhillon, V. S., Kamann, S., and 5 colleagues including **Pelisoli, I.** (2025), *Constraints on optical and near-infrared variability in the localization of the long-period radio transient GLEAM-X J1627-52*, MNRAS, 538, 925.

Rodriguez, A. C., El-Badry, K., Hakala, P., and 30 colleagues including **Pelisoli, I.** (2025), *A Link Between White Dwarf Pulsars and Polars: Multiwavelength Observations of the 9.36-minute Period Variable Gaia22ayj*, PASP, 137, 024202.

Parsons, S. G., Brown, A. J., Casewell, S. L., and 19 colleagues including **Pelisoli, I.** (2025), *Two almost planetary mass survivors of common envelope evolution*, MNRAS, 537, 2112.

Chakraborty, J., Burdge, K. B., Rappaport, S. A., and 35 colleagues including **Pelisoli, I.** (2024), *Expanding the Ultracompacts: Gravitational-wave-driven Mass Transfer in the Shortest-period Binaries with Accretion Disks*, ApJ, 977, 262.

Eschen, Y. N. E., Bayliss, D., Wilson, T. G., and 3 colleagues including **Pelisoli, I.** (2024), *Viewing the PLATO LOPS2 field through the lenses of TESS*, MNRAS, 535, 1778.

Groot, P. J., Bloemen, S., Vreeswijk, P. M., and 76 colleagues including **Pelisoli, I.** (2024), *The BlackGEM Telescope Array. I. Overview*, PASP, 136, 115003.

Geier, S., Heber, U., Irrgang, A., and 19 colleagues including **Pelisoli, I.** (2024), *A spectroscopic and kinematic survey of fast hot subdwarfs*, A&A, 690, A368.

Rebassa-Mansergas, A., Hollands, M., Parsons, S. G., and 6 colleagues including **Pelisoli, I.** (2024), *J0526+5934: A peculiar ultra-short-period double white dwarf*, A&A, 686, A221.

Dawson, H., Geier, S., Heber, U., and 25 colleagues including **Pelisoli, I.** (2024), *A 500 pc volume-limited sample of hot subluminous stars. I. Space density, scale height, and population properties*, A&A, 686, A25.

Culpan, R., Dorsch, M., Geier, S., and 4 colleagues including **Pelisoli, I.** (2024), *Probing the inner Galactic halo with blue horizontal-branch stars. Gaia DR3-based catalogue with atmospheric and stellar parameters*, A&A, 685, A134.

Aungwerojwit, A., Gänsicke, B. T., Dhillon, V. S., and 7 colleagues including **Pelisoli, I.** (2024), *Long-term variability in debris transiting white dwarfs*, MNRAS, 530, 117.

Antunes Amaral, L., Munday, J., Vuckovic, M., and 7 colleagues including **Pelisoli, I.** (2024), *The double low-mass white dwarf eclipsing binary system J2102-4145 and its possible evolution*, A&A, 685, A9.

Hawthorn, F., Gill, S., Bayliss, D., and 20 colleagues including **Pelisoli, I.** (2024), *TESS duotransit candidates from the Southern Ecliptic Hemisphere*, MNRAS, 528, 1841.

Levan, A. J., Gompertz, B. P., Salafia, O. S., and 82 colleagues including **Pelisoli, I.** (2024), *Heavy-element production in a compact object merger observed by JWST*, Nature, 626, 737.

Green, M. J., Hermes, J. J., Barlow, B. N., and 22 colleagues including **Pelisoli, I.** (2024), *TIC 378898110: A bright, short-period AM CVn binary in TESS*, MNRAS, 527, 3445.

O'Brien, M. W., Tremblay, P.-E., Klein, B. L., and 14 colleagues including **Pelisoli, I.** (2024), T*he 40 pc sample of white dwarfs from Gaia*, MNRAS, 527, 8687.

Reindl, N., Islami, R., Werner, K., and 10 colleagues including **Pelisoli, I.** (2023), *The bright blue side of the night sky: Spectroscopic survey of bright and hot (pre-) white dwarfs*, A&A, 677, A29.

Geier, S., Dorsch, M., Dawson, H., and 5 colleagues including **Pelisoli, I.** (2023), *The first massive compact companion in a wide orbit around a hot subdwarf star*, A&A, 677, A11.

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2. Non-refereed publications

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Bell, K.J., Kosakowski, A., Kilic, M., and 8 colleagues including **Pelisoli, I.** (2019), *A Hot Subdwarf B Star Eclipsed by a Low-mass White Dwarf in TESS Data*, Research Notes of the American Astronomical Society, 3, 81.

3. Conference proceedings

a) Refereed

Pelisoli, I., Kepler, S.O., and Koester, D. (2017), *Are sdAs helium core stars?*, Open Astronomy, 26, 169.

b) Non-refereed

Córsico, A.H., Romero, A.D., Althaus, L.G., **Pelisoli, I.**, and Kepler, S.O. (2018), *Blue Large-Amplitude Pulsators (BLAPs): possible origin, evolutionary status, and nature of their pulsations*, Proceedings of the 21st European White Dwarf Workshop held on July 23-27, 2018, Austin, Texas.

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List of approved telescope proposals

1. As Principal Investigator

Northern-Cone Spectroscopic Survey of Hot Subdwarfs: A Volume-Limited Approach

- ⋆ WEAVE, William Herschel Telescope
  2025A, 52.3 hours as **PI**

Unveiling the nature of the companions to hot subdwarf stars within 500 pc

- ⋆ IDS, Isaac Newton Telescope
  2024A, 11 nights as **PI**

Constraining the binary population of hot subdwarf stars in the Gaia era

- ⋆ IDS, Isaac Newton Telescope
  2023B, 10 nights as **PI**

A new radio pulsing white dwarf?

- ⋆ COS, Hubble Space Telescope
  Cycle 31, 12 orbits as **PI**

A second white dwarf pulsar

- ⋆ X-SHOOTER, European Southern Observatory
  P109 (DDT), 4.1 h as **PI**

Characterising the First Volume-Complete Sample of Hot Subluminous Stars

- ⋆ IDS, Isaac Newton Telescope
  2022B, 5 nights as **PI**

Follow-up spectroscopy of extremely-low mass white dwarfs identified in Gaia DR2

- ⋆ FORS2, European Southern Observatory
  P108, P109, 60.9h as **PI**

Searching for white dwarf pulsars: characterising low luminosity infrared-bright variable sources

- ⋆ X-SHOOTER, European Southern Observatory
  P108, P109, 13.1 hours as **PI**
- ⋆ ULTRACAM, European Southern Observatory
  P109, 3 nights as **PI**

Neighborhood watch: leave no white dwarf behind

- ⋆ Goodman High Throughput Spectrograph, Southern Astrophysical Research Telescope
  2017B, 2018A-B, 82.5 hours as **PI**

Where are the cool extremely-low mass white dwarfs?

- ⋆ Goodman High Throughput Spectrograph, Southern Astrophysical Research Telescope
  2017B, 2018B, 29 hours as **PI**
- ⋆ GMOS, Gemini Observatory
  2017B, 2018A, 65.2 hours as **PI**

Time Resolved Spectroscopy of the Lowest Mass White Dwarfs

- ⋆ Goodman High Throughput Spectrograph, Southern Astrophysical Research Telescope
  2016A-B, 2017A, 83 hours as **PI**
- ⋆ GMOS, Gemini Observatory
  2016B, 2017A, 34.1 hours as **PI**
- ⋆ X-SHOOTER, European Southern Observatory
  P97, 14 hours as **PI**

Photometry of Extremely-Low Mass White Dwarf Candidates

- ⋆ Goodman High Throughput Spectrograph, Southern Astrophysical Research Telescope
  2016A-B, 2017A-B, 136 hours as **PI**
- ⋆ 1.6-m Perkin-Elmer Telescope, Pico dos Dias Observatory
  2016A-B, 2017A-B, 2018A, 38 nights as **PI**

2. As Co-Investigator

Characterisation of new eclipsing WD binaries from NGTS

- ULTRACAM, European Southern Observatory
  P116, 13.7 hours as co-I

Follow-up spectroscopy of extremely-low mass white dwarfs identified in Gaia DR2

- FORS2, European Southern Observatory
  P116, 29.6h as co-I

Revealing the missing link between intermediate polars and the long-period radio transients

- ULTRACAM, European Southern Observatory
  P116, 2.7 hours as co-I

Search for evolved planetary systems around polluted white dwarfs

- X-SHOOTER, European Southern Observatory
  P116, 5.9 hours as co-I
- ULTRACAM, European Southern Observatory
  P116, 57.3 hours as co-I

Towards the first measurement of tidal dissipation in an ultra-compact binary

- ULTRACAM, European Southern Observatory
  P116, 12.6 hours as co-I

Constraining the geometry of white dwarf pulsars

- VLA
  2025A, 4 hours as co-I

An analysis of hot and bloated pre-ELMs in close binary systems

- EFOSC2, European Southern Observatory
  P114, 27.4 hours as co-I

A comprehensive search for pulsating hot subdwarf B stars using Gaia volume-limited sample

- ULTRACAM, European Southern Observatory
  P113, 28.5 hours as co-I

Radial velocities of the first compact, super-Chandrasekhar mass double white dwarf

- UVES, European Southern Observatory
  P113, 4.5 hours as co-I

Search for pulsating low-mass white dwarfs

- ULTRACAM, European Southern Observatory
  P113, 30 hours as co-I

Constraining the radio emission mechanism in white dwarf pulsars

- VLA
  2024B, 4 hours as co-I

Characterisation of a new eclipsing white dwarf - brown dwarf binary from NGTS

- X-SHOOTER, European Southern Observatory
  P112, 3 hours as co-I
- ULTRACAM, European Southern Observatory
  P112, 7 hours as co-I

Precise system masses of an ultra-compact, eclipsing and double-lined double white dwarf binary

- X-SHOOTER, European Southern Observatory
  P112, 5 hours as co-I

A puzzling emission-line object in a common proper motion pair

- UVES, European Southern Observatory
  P112, 30 hours as co-I

Characterising the binary population of hot subdwarf stars within 500pc

- IDS, Isaac Newton Telescope
  2023B, 10 nights as co-I
- Goodman High Throughput Spectrograph, Southern Astrophysical Research Telescope
  P103, 40 hours as co-I

A Single, Radio-Emitting White Dwarf Discovered in VLASS?

- ⋆ VLA
  2023B, 0.5 hours as co-I

Follow-up spectroscopy of extremely-low mass white dwarfs identified in Gaia DR2

- ⋆ OSIRIS, Gran Telescope Canarias
  2021A/B, 2022A, 140 hours as co-I
- ⋆ Goodman High Throughput Spectrograph, Southern Astrophysical Research Telescope
  2019A/B, 2020A/B, 2021A/B, 165 hours as co-I
- ⋆ GMOS, Gemini Observatory
  2019A-B, 2020A/B, 2021A/B, 83.2 hours as co-I
- ⋆ IDS, Isaac Newton Telescope
  2019B, 2020A/B, 38 nights as co-I

The First Volume-limited Complete Catalogue of Hot Subdwarf Stars

- ⋆ IDS, Isaac Newton Telescope
  2019B, 2020A, 16 nights as co-I
- ⋆ ALFOSC, Nordic Optical Telescope
  P60, P61, 5 nights as co-I

White dwarf stars as tracers of stellar, galactic, and planetary evolution

- ⋆ Goodman High Throughput Spectrograph, Southern Astrophysical Research Telescope
  2019A, 40 hours as co-I

Spectroscopic follow-up of photometric variable hot subdwarfs identified from TESS

- ⋆ B&S spectrograph, Irenee du Pont Telescope
  2019A, 4 nights as co-I
- ⋆ Goodman High Throughput Spectrograph, Southern Astrophysical Research Telescope
  2019A, 3 nights as co-I
- ⋆ MagE, Magellan Clay telescope
  2019A, 6 nights as co-I

A complete census of stellar and planetary remnants within 40 pc

- ⋆ X-SHOOTER, European Southern Observatory
  P105, 15 nights over two semesters as co-I

Galactic Archeology with White Dwarfs

- ⋆ ITP Large proposal (duration: two years)
  2018B, GTC (80 hours), STELLA (80 hours), LT (15 nights), MERCATOR (15 nights), WHT (15 nights), TNG (15 nights), INT (15 nights) as co-I

Neighborhood watch: leave no white dwarf behind

- ⋆ X-SHOOTER, European Southern Observatory
  P101, 40 hours as co-I
- ⋆ ISIS, WHT
  2018B, 2019A, 6 nights as co-I