

# Ingrid D. Pelisoli

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## 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<sup>+</sup> no espectro do átomo de hidrogênio](#)  
(A study of the effect of H-H<sup>+</sup> collisions in the hydrogen atom spectrum)

## Professional Experience

- 04/2023 – present** Prize Research Fellow, University of Warwick (UK)
- 11/2020 – 03/2023** 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

- 07/2022 – present** Head of [4MOST](#) IWG6, Data Curation and Data Release.
- 06/2019 – present** Co-lead of the 4MOST subsurvey 3.7, Hot Subdwarf Stars.
- 11/2018 – present** Co-lead of the TESS [TASC](#) Working Group 8.4, Evolved Compact Binaries.
- 06/2019 – 07/2022** Quality Control Scientist and head of the Quality Control Team for [4MOST](#).

## Teaching

- 2023/Spring** 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

- 11/2022 – present** member of the volunteer group running planetarium events at Warwick
- 02/2017 – present** [astropontos.org](#) founder, administrator, and regular author
- 05/2023** [Pint of Science](#) Coventry event manager
- 02/2022** Invited talk for the Astronomy Society at Warwick: *The Life and Death of Stars*
- 2019, 2022** [skypeascientist.com](#) volunteer
- 01/2019** Invited talk for the Berlin Astronomy & Astrophotography Meetup: *The Life and Death of Stars*
- 12/2015 – 12/2017** [astrobites.org](#) regular author

**Publications**

**68 publications**, 60 of which are refereed, of those **13 as first author** (3 featured in press releases).

Total citations: 2145; **h-index: 21**. **Full publication list presented at the end of this CV.**

**Supervised and co-supervised students**

- 07/2023 – present** Summer Student Saurav Ruparelia (University of Warwick)  
*Understanding the origin of stars that should not exist*
- 02/2023 – present** PhD student James Munday (University of Warwick)  
*The population of double white dwarf binaries*
- 07/2021 – present** PhD student Larissa Antunes Amaral (Universidad de Valparaíso)  
*Pulsations in hydrogen-atmosphere white dwarfs*
- 04/2019 – present** PhD student Rick Culpan (Universität Potsdam)  
*Blue Horizontal Branch Stars in Gaia*
- 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**

- 07/2022** [Know Your Neighbour: White Dwarf Researchers in the UK](#) (NAM 2022, Organising Committee)
- 06/2022** [10<sup>th</sup> Meeting on Hot Subdwarfs and Related Objects](#) (Scientific Organising Committee)
- 03/2021–02/2022** [O-MESS: Online Meetings on Evolved Stars and Systems](#) (Organising Committee)
- 08/2019** [Stars on the Run II](#) (Local Organising Committee)

**Presentations*****Invited***

- 11/2023** *Spectral analysis and searches for nearby binary white dwarfs*, XVII Latin American Regional IAU Meeting (Montevideo, Uruguay)
- 08/2023** *White Dwarf Stars*, 2023 STFC Summer School (Hull, UK)
- 04/2023** *Observational clues for the origin of magnetic fields in white dwarfs*, University of Hertfordshire (Hatfield, 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)
- 11/2022** *The surprising outcomes of binary evolution*, Armagh Observatory and Planetarium (Armagh, UK)
- 06/2022** *Standard and Alternative Pathways for Hot Subdwarf Formation*, 10th Meeting on Hot Subdwarfs and Related Objects, Liège (Belgium)
- 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 São 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)
- 03/2019** *Compact binaries in the TESS era, Astroplate III – Large surveys with small telescopes: Past, Present, and Future* (Bamberg, Germany)

***Contributed***

- 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 (Germany)

- 08/2022** *Searching for AR Sco 2: are other white dwarf pulsars out there?*, 22nd European Workshop on White Dwarfs (Germany)
- 06/2022** *Observational evidence that binary interaction is always required to form hot subdwarf stars*, 10th Meeting on Hot Subdwarfs and Related Objects (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)

### 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

- 03/2023** Ernest Rutherford Fellowship
- 03/2023** Marie Curie Fellowship (declined)
- 11/2022** Warwick Prize Fellowship
- 01/2019–12/2019** 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)
- 08/2014–06/2018** CNPq Scholarship, awarded by the Brazilian Ministry of Sciences to PhD candidates based on CV ranking (ranked 1st in the institution, R\$ 122 880)
- 04/2017–09/2017** PDSE/CAPES Scholarship, awarded by the Brazilian Ministry of Education to undertake research at the University of Warwick (£ 10 662)
- 03/2013–08/2014** 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)
- 33 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***

**2015, 2018 – present** Monthly Notices of the Royal Astronomical Society

**2022– present** Astronomy & Astrophysics

**2019 – present** Astrophysical Journal

**2020** Astronomische Nachrichten

**2019 – 2020** Nature Astronomy

### ***Departmental Services***

**2014 – 2016** Graduate Student Representative

**2011 – 2012** Undergraduate Student Representative

## **References**

Prof. Boris Gänsicke, University of Warwick, UK

Prof. Stephan Geier, Universität Potsdam, Germany

Prof. S. O. Kepler, Universidade Federal do Rio Grande do Sul, Brazil

Prof. Danny Steeghs, University of Warwick, UK

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**Full publication list**

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

**1. Refereed publications****a) First author**

**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/](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](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**

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 subluminescent 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**
- 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, in press.
- 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, in press.
- Caiazzo, Iaria, Burdge, Kevin B., Tremblay, Pier-Emmanuel, and 35 colleagues including **Pelisoli, I.** (2023), [A rotating white dwarf shows different compositions on its opposite faces](#), Nature, 620, 61
- Munday, James, Tremblay, P. -E., Hermes, J. J., and 20 colleagues including **Pelisoli, I.** (2023), [An eclipsing 47 min double white dwarf binary at 400 pc](#), MNRAS, 525, 1814
- Schwöpe, A., Marsh, T. R., Standke, A., and 5 colleagues including **Pelisoli, I.** (2023), [X-ray properties of the white dwarf pulsar eRASSU J191213.9–441044](#), A&A, 674, 9.
- Brown, A. J., Parsons, S. G., van Roestel, J., and 12 colleagues including **Pelisoli, I.** (2023), [Photometric follow-up of 43 new eclipsing white dwarf plus main-sequence binaries from the ZTF survey](#), MNRAS, 521, 1880.
- Munday, J., Marsh, T. R., Hollands, M., and 15 colleagues including **Pelisoli, I.** (2023), [Two decades of optical timing of the shortest-period binary star system HM Cancrj](#), MNRAS, 518, 5123.
- O'Brien, M. W., Tremblay, P. -E., Gentile Fusillo, N. P., and 31 colleagues including **Pelisoli, I.** (2023), [Gaia white dwarfs within 40 pc - III. Spectroscopic observations of new candidates in the Southern hemisphere](#), MNRAS, 518, 3055.
- Dhillon, V. S., Kennedy, M. R., Breton, R. P., and 16 colleagues including **Pelisoli, I.** (2022), [Multi-colour optical light curves of the companion star to the millisecond pulsar PSR J2051-0827](#), MNRAS, 516, 2792.
- Brown, A. J., Parsons, S. G., Littlefair, S. P. and 10 colleagues including **Pelisoli, I.** (2022), [Characterizing eclipsing white dwarf M dwarf binaries from multiband eclipse photometry](#), MNRAS, 513, 3050.
- Romero, A. D. , Kepler, S. O. , Hermes, J. J. and 17 colleagues including **Pelisoli, I.** (2022), [Discovery of 74 new bright ZZ Ceti stars in the first three years of TESS](#), MNRAS, 511, 1574.
- Mösenlechner, G., Paunzen, E., **Pelisoli, I.** and 3 colleagues (2021), [A Kepler K2 view of sdA stars](#), A&A, 657, 27.
- Sanjayan, S., Baran, A. S., Ostrowski, J. and 6 colleagues including **Pelisoli, I.** (2021), [Pulsating subdwarf B stars in the oldest open cluster NGC 6791](#), MNRAS, 509, 763.
- Dhillon, V.S., Bezawada, N., Black, M., and 36 colleagues including **Pelisoli, I.** (2021), [HiPERCAM: a quintuple-beam, high-speed optical imager on the 10.4-m Gran Telescopio Canarias](#), MNRAS, 507, 350.



- Mereghetti, S., Pintore, F., Rauch, T., and 7 colleagues including **Pelisoli, I.** (2021), [New X-ray observations of the hot subdwarf binary HD 49798/RX J0648.0-4418](#), MNRAS, 504, 920.
- Reindl, N., Schaffenroth, V., Filiz, S., and 3 colleagues including **Pelisoli, I.** (2021), [Mysterious, variable, and extremely hot: White dwarfs showing ultra-high excitation lines. I. Photometric variability](#), A&A, 647, A184.
- Werner, K., Reindl, N., Löbbling, L., and 5 colleagues including **Pelisoli, I.** (2020), [An extremely hot white dwarf with a rapidly rotating K-type subgiant companion: UCAC2 46706450](#), A&A, 642, A228.
- Tremblay, P.-E., Hollands, M.A., Gentile Fusillo, N.P., and 30 colleagues including **Pelisoli, I.** (2020), [Gaia white dwarfs within 40 pc - I. Spectroscopic observations of new candidates](#), MNRAS, 497, 130.
- Pala, A.F., Gänsicke, B.T., Breedt, E., and 15 colleagues including **Pelisoli, I.** (2020), [A Volume-limited Sample of Cataclysmic Variables from Gaia DR2: Space Density and Population Properties](#), MNRAS, 494, 3799.
- Manser, C.J., Gänsicke, B.T., Gentile Fusillo, N.P., and 5 colleagues including **Pelisoli, I.** (2020), [The frequency of gaseous debris discs around white dwarfs](#), MNRAS, 493, 2127.
- Irrgang, A., Geier, S., Kreuzer, S., **Pelisoli, I.**, and Heber, U. (2020), [A stripped helium star in the potential black hole binary LB-1](#), A&A, 633, L5.
- Romero, A.D., Amaral, L.A., Klippel, T., and 7 colleagues including **Pelisoli, I.** (2019), [Ground-based observation of ZZ Ceti stars and the discovery of four new variables](#), MNRAS, 490, 1803.
- Charpinet, S., Brassard, P., Fontaine, G., and 29 colleagues including **Pelisoli, I.** (2019), [TESS first look at evolved compact pulsators. Discovery and asteroseismic probing of the g-mode hot B subdwarf pulsator EC 21494-7018](#), A&A, 632, A90.
- Raddi, R., Hollands, M.A., Koester, D., and 13 colleagues including **Pelisoli, I.** (2019), [Partly burnt runaway stellar remnants from peculiar thermonuclear supernovae](#), MNRAS, 489, 1489.
- Schaffenroth, V., Barlow, B.N., Geier, S., and 14 colleagues including **Pelisoli, I.** (2019), [The EREBOS project: Investigating the effect of substellar and low-mass stellar companions on late stellar evolution. Survey, target selection, and atmospheric parameters](#), A&A, 630, A80.
- Hosseinzadeh, G., Cowperthwaite, P.S., Gomez, S., and 23 colleagues including **Pelisoli, I.** (2019), [Follow-up of the Neutron Star Bearing Gravitational-wave Candidate Events S190425z and S190426c with MMT and SOAR](#), ApJL, 880, L4.
- Scholz, R.-D., Meusinger, H., Schwöpe, A., Jahreiß, H., and **Pelisoli, I.** (2018), [Spectroscopic classification and Gaia DR2 parallaxes of new nearby white dwarfs among selected blue proper motion stars](#), A&A, 619, A31.
- Sánchez Arias, J.P., Romero, A.D., Córscico, A.H., and 5 colleagues including **Pelisoli, I.** (2018), [Comparing the asteroseismic properties of pulsating pre-extremely low mass white dwarf and  \$\delta\$  Scuti stars](#), A&A, 616, A80.
- Romero, A.D., Córscico, A.H., Althaus, L.G., **Pelisoli, I.**, and Kepler, S.O. (2018), [On the evolutionary status and pulsations of the recently discovered blue large-amplitude pulsators \(BLAPs\)](#), MNRAS, 477, L30.
- Nicholl, M., Berger, E., Kasen, D., and 31 colleagues including **Pelisoli, I.** (2017), [The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. III. Optical and UV Spectra of a Blue Kilonova from Fast Polar Ejecta](#), ApJL, 848, L18.
- Kleinman, S.J., Kepler, S.O., Koester, D., and 13 colleagues including **Pelisoli, I.** (2013), [SDSS DR7 White Dwarf Catalog](#), ApJS, 204, 5.

## 2. Non-refereed publications

- 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

- Córscico, 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.

- Pelisoli, I.**, Kepler, S.O., Koester, D., and Romero, A.D. (2017), [What's the Nature of sdA Stars?](#), 20th European White Dwarf Workshop, 509, 447.
- Kepler, S.O., Koester, D., Romero, A.D., Ourique, G., and **Pelisoli, I.** (2017), [White Dwarf Mass Distribution](#), 20th European White Dwarf Workshop, 509, 421.
- Kepler, S.O., Romero, A.D., **Pelisoli, I.**, and Ourique, G. (2017), [White Dwarf Stars](#), International Journal of Modern Physics Conference Series, 45, 1760023.
- Kepler, S.O., **Pelisoli, I.**, Koester, D., and 11 colleagues (2015), [New White Dwarfs in the SDSS DR10](#), 19th European Workshop on White Dwarfs, 493, 449.
- Kepler, S.O., Kleinman, S.J., **Pelisoli, I.**, and 5 colleagues (2010), [Magnetic White Dwarfs in the SDSS and Estimating the Mean Mass of Normal DA and DB WDs](#), 17th European White Dwarf Workshop, 1273, 19.



**List of approved telescope proposals****1. As Principal Investigator*****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 h 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 h as PI

***Where are the cool extremely-low mass white dwarfs?***

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

***Time Resolved Spectroscopy of the Lowest Mass White Dwarfs***

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

***Photometry of Extremely-Low Mass White Dwarf Candidates***

- ★ Goodman High Throughput Spectrograph, Southern Astrophysical Research Telescope  
2016A-B, 2017A-B, 136 h 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 a new eclipsing white dwarf - brown dwarf binary from NGTS***

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

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

- ★ UVES, European Southern Observatory  
P112, 30 h 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 h as co-I

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

- ★ OSIRIS, Gran Telescopio Canarias  
2021A/B, 2022A, 140 h as co-I
- ★ Goodman High Throughput Spectrograph, Southern Astrophysical Research Telescope  
2019A/B, 2020A/B, 2021A/B, 165 h as co-I
- ★ GMOS, Gemini Observatory  
2019A-B, 2020A/B, 2021A/B, 83.2 h 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 h as co-I

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

- ★ B&S spectrograph, Irene 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 h as co-I
- ★ ISIS, WHT  
2018B, 2019A, 6 nights as co-I