

JJ Hermes, Full Publication CV

Assistant Professor of Astronomy, Boston University
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Professional Appointments

- Assistant Professor, Department of Astronomy, **Boston University**, 2019–
- NASA Hubble Fellow, **University of North Carolina at Chapel Hill**, 2015–2018
- ERC Postdoctoral Research Fellow, **University of Warwick**, 2013–2015
- Reporter, **The Chronicle of Higher Education**, 2007–2008

Education

- **University of Texas at Austin**, Ph.D., August 2013
- **University of Texas at Austin**, B.S. Physics, B.A. Astronomy, May 2007

Professional Service

Leadership & Advisory Roles

- Survey Scientist, Milky Way Mapper, SDSS-V, 2024–
- BU Member Representative, Association of Universities for Research in Astronomy (AURA), 2022–
- Member, Zwicky Transient Facility II Community Science Advisory Committee, 2020–
- External Participant, SDSS-V, 2020–
- Steering Committee, *TESS* Asteroseismology Consortium (TASC), 2017–
- Co-Chair, *TESS* Asteroseismology Consortium (TASC) Working Group 8 (Compact Objects), 2017–
- Deputy Chair, K2 Users Panel, 2016–2019

Conference Organizing Committees

- Member, Scientific Organizing Committee, *TESS* Science Conference III, Boston, MA, 2024 July
- Member, Scientific Organizing Committee, 24th European Workshop on WDs, Barcelona, 2024 July
- Member, Scientific Organizing Committee, *TESS* Science Conference II, Boston, MA, 2021 August
- Chair, Scientific Organizing Committee, TASC5/KASC12 Workshop, Boston, MA, 2019 July
- Co-Chair, Scientific Organizing Committee, *Kepler* / K2 Science Conference V, Glendale, CA, 2019 March
- Member, Scientific Organizing Committee, 4th TASC Meeting, Aarhus, Denmark, 2018 July
- Member, Scientific Organizing Committee, *Kepler* / K2 Science Conference IV, NASA Ames, 2017 June

Peer Review

- NASA ADAP & XRP Review Panelist; NSF AAG & GRFP Review Panelist; STFC Reviewer
- NASA Keck Telescope Allocation Committee, 2020–2022
- Panelist, *Chandra* TAC (Cycle 20); Panelist, *HST* TAC (Cycles 25, 29 & 30)
- Journal referee for *Nature*, *The Astrophysical Journal*, *MNRAS*, *Science Advances*, and *A&A*

External Research Support

- 2022, NASA XRP22, **PI, \$383,681**: “*The still-perilous fate of exoplanets that survive stellar evolution*”
- 2021, *HST* Cycle 29 #16642 & #16719, Co-I, **\$90,771**: “*A legacy survey for evolved planetary systems*”
- 2021, *TESS* Cycle 4 GI Proposal, **PI, \$70,000**: “*High-Speed Observations of White Dwarfs in TESS Cycle 4*”
- 2019, *HST* Cycle 26 #15871 & #15915, Co-I, **\$22,824**: *UV properties of supernova survivors*
- 2019, *TESS* Cycle 2 GI Proposal, **PI, \$50,000**: “*White Dwarf Variability in the Ecliptic North*”
- 2019, NSF AAG, Co-PI, **\$428,031**: “*Collaborative Research: The Coeval Degenerates Survey*”
- 2018, *TESS* Cycle 1 GI Proposal, **PI, \$50,000**: “*White Dwarf Variability in the Ecliptic South*”
- 2018, K2 Cycle 6 GO Proposal, **PI, \$50,000**: “*K2 Observations of Variable WDs in Fields 17, 18 and 19*”
- 2017, K2 Cycle 5 GO Proposal, **PI, \$50,000**: “*K2 Observations of Variable WDs in Fields 14, 15 and 16*”
- 2017, *HST* Cycle 25 #15073, Co-I, **\$59,775**: “*Extreme evolved solar systems*”
- 2016, *HST* Cycle 24 #14691, **PI, \$61,962**: “*Unraveling the oscillations of the richest pulsating WD*”
- 2016, K2 Cycle 4 GO Proposal, **PI, \$50,000**: “*K2 Observations of Variable WDs in Fields 11, 12 and 13*”

Selected Awarded Telescope Proposals

- 2022, 8 nights, 4.3-m LDT telescope: DeVeny spectroscopy [PI, B03 & B01]
- 2021, 30 hours NOAO, 4.1-m SOAR telescope: Goodman spectroscopy [PI, 2021B-007]
- 2019, 1346 short-cadence targets, *TESS* Sectors 14-26, *TESS* Space Telescope [PI, G022028]
- 2018, 399 short-cadence targets, *K2* Campaigns 1-19, *Kepler* Space Telescope [PI, 6 GO programs]
- 2018, 9 nights NOAO, 4.1-m SOAR telescope: Goodman spectroscopy [PI, 2018A-0188 & 2018B-0138]
- 2016, 6 orbits, Cycle 24, *Hubble* Space Telescope: COS [PI, Program 14691]
- 2016, 11 hr, 9.8-m Southern African Large Telescope: RSS [PI, 2016-1-SCI-017 & 2016-2-SCI-030]
- 2015, 5 hr, 8-m Very Large Telescope: UVES [PI, ESO 095.D-0409]
- 2015, 4 nights, 3.6-m New Technology Telescope: EFOSC2 [PI, ESO 095.D-0406]
- 2015, 13 nights, 2.5-m Isaac Newton Telescope: IDS [PI, I/2015A/P04, I/2014B/P06]
- 2014, 4 nights, 4.2-m William Herschel Telescope: ISIS/ULTRACAM [PI, 2014A/P14 & 2014A/P15]

Invited Talks (Additional Contributed Talks Online: speakerdeck.com/jjhermes)

Colloquia:

- Caltech (2023-11-08)
- UMass Amherst (2023-03-30)
- Rutgers (2022-09-22)
- Pitt/CMU (2022-04-18)
- MIT (2021-10-19)
- Aarhus University (2021-03-11)
- STScI / Johns Hopkins (2020-02-19)
- IfA / U. Hawaii (2018-05-16)
- NRAO / U. Virginia (2017-11-09)
- University of Texas at Austin (2017-10-31)
- The Ohio State University (2017-10-19)
- Louisiana State University (2016-10-21)
- University of Montreal (2016-04-07)
- University of Toronto (2016-04-01)
- Wesleyan University (2016-02-24)
- University of Washington (2013-10-31)

Invited Reviews:

- KITP Workshop; Santa Barbara, CA (2022-11)
- 5th TASC Workshop; Leuven, Belgium (2022-07)
- Maria Mitchell Obs.; Nantucket, MA (2021-06)
- Hydrogen Deficient Stars; Armagh, UK (2018-09-11)
- PPhysics of Oscillating STars; France (2018-09-05)
- 10th KASC Workshop; Birmingham, UK (2017-07-18)
- Rotation, pulsation & chemical peculiarities in stars; Windermere, Cumbria, UK (2016-09-14)
- Sociedade Astronômica Brasileira, Ribeirão Preto, Brazil (2016-08-31)
- K2 SciCon; Santa Barbara, CA (2015-11-03)
- 8th KASC Workshop; Aarhus, Denmark (2015-06-15)
- RAS Specialist Meeting on Asteroseismology, London, UK (2015-05-08)
- 6th KASC Workshop; Sydney, Australia (2013-06-27)
- Planets Around Stellar Remnants; Arecibo, Puerto Rico (2012-01-24)

Selected Press Coverage

- 8.9-hr Rotation in the Partly Burnt Runaway Stellar Remnant LP 40-365 ([Hermes et al. 2021](#))
[LiveScience](#): Runaway star caught streaking across Milky Way at 2 million mph — in wrong direction
- A class of partly burnt runaway supernovae remnants ([Raddi et al. 2019](#))
[Scientific American](#): Zombie Stars Shine On after Mystery Detonations
- Core crystallization and pile-up in the cooling sequence of white dwarfs ([Tremblay et al. 2019](#))
[Los Angeles Times](#): One day our sun will solidify into a giant crystal orb
- Confirmation of outbursts in the coolest pulsating white dwarfs ([Hermes et al. 2015b](#))
[Sky & Telescope](#): White Dwarf Stars with Hiccups
- Discovery of the most massive pulsating white dwarf, GD 518 ([Hermes et al. 2013c](#))
[Astronomy Magazine](#): Astronomers discover pulsations from crystalized dying star
- The first indirect detection of gravitational waves using visible light ([Hermes et al. 2012c](#))
[Nature](#): Stellar duo tests Einstein's theory
[BBC News](#): Gravitational waves spotted from white-dwarf pair

Teaching and Outreach

- **Instructor:** CAS AS 102, “The Astronomical Universe,” Boston University, Spring 2019, Spring 2020
- **Instructor:** CAS AS 105, “Alien Worlds,” Boston University, Fall 2019, Fall 2020
- **Instructor:** CAS AS 441, “Observational Astronomy,” Boston University, Sp 2022, Sp 2023, Sp 2024
- **Instructor:** GRS AS 709, “Observational Techniques,” Boston University, Fall 2023
- **Instructor:** GRS AS 850, “Astrophysics Seminar,” Boston University, Fall 2020, Spring 2021
- **Instructor:** AST 152M, “Stellar Astronomy Lab,” UT-Austin, Fall 2010
- **Supervision** of research led by graduate students Ben Roulston (BU & CfA, defended 2022, now Asst. Prof. at Clarkson University), Tyler Heintz (BU, ongoing), Lou Baya Ould Rouis (BU, ongoing), Joseph Guidry (BU, ongoing), & Isaac Lopez (BU, 2019, now at Iowa State); ongoing undergraduates Madison VanWyngarden (Goldwater Scholar, USRA Distinguished Undergraduate Award, BU), Jay LoMonaco (BU), Brock Ewing (BU), Alex Thornton (BU); past undergraduates Maya Steen (BU, now NMSU), Corinna Peña (Butler, now U. Utah), Annabelle Paiva (BU), Odelia Putterman (Goldwater Scholar, BU), Alex Granados (Wellesley, now Minnesota), Huyongqing Chen (BU), & Kera Regan-Byrne (BU); high school students Filippo Nicolai, Charlie Walsh (now U. Chicago), & Ben Rosenthal (now Yale)
- **Co-supervision** of research led by graduate students Zach Vanderbosch (UT-Austin, defended 2021) and Josh Reding (UNC, defended 2022); undergraduates Joseph Guidry (UT-Austin, 2021), Stephen Fanale (UNC, 2017), Brandon Castillo (UNC, 2018), and George Miller (UT-Austin, 2011)
- **Outreach talks:** Exploring the Cosmos, joint with Katie Mack, JMP Statistically Speaking Event (2022 January); Maria Mitchell Observatory Science Speaker Series (2021 June); KITP Teachers’ Conference: White Dwarfs as Cosmic Labs (2021 March); Maria Mitchell Observatory Science Speaker Series (2020 July); Astronomy on Tap Boston (2020 March); Amateur Telescope Makers of Boston (2019 October); Galloway Ridge Retirement Community, Pittsboro, NC (2018 June); Holly Springs High School, Holly Springs, NC (2018 March); Staunton River Star Party, Staunton, VA (2017 October); CHAOS Astronomical and Observational Society, Chapel Hill, NC (2016 March); *Astronomy Days*, North Carolina Museum of Natural Sciences, Raleigh, NC (2016-2018 January); National Space Academy, Leicester, UK (2013 November); Elm Grove Elementary School, Austin, TX (2011 April)
- **Founding organizer and host:** Astronomy on Tap Triangle (<https://twitter.com/aottriangle>), a monthly outreach event at Fullsteam Brewery, Durham, NC
- **Advisory board:** Inclusive Astronomy, an affinity group and outreach organization aimed to provide an organized structure for underrepresented people within the Department of Astronomy at BU

Awards and Distinctions

- 2024: **Scialog Fellow**, Research Corporation for the Advancement of Science
- 2019: **Scialog Fellow**, Research Corporation for the Advancement of Science
- 2015: **Hubble Fellowship**, 2015-18
- 2015: **65th Lindau Nobel Laureate Meeting**, selected as participating young scientist
- 2013: **David Benfield Memorial Fellowship in Astronomy**, UT-Austin
- 2012: **Fred T. Goetting, Jr. Memorial Endowed Presidential Fellowship**, UT-Austin

Contact Information:

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JJ Hermes: Full Web Listing of Publications

Refereed citations: 4840 Total refereed citations of first-author publications: 909
h-index: 40 (as of June 13, 2024)

Textbooks

3. S. B. Howell, ed., 2020, *The NASA Kepler Mission*, 2514-3433 (IOP Publishing).
Invited contribution to chapter on 'Stellar Astrophysics with Kepler and K2,' edited by Steve B. Howell (2020)
[The NASA Kepler Mission, 2020, IOP Publishing Ltd](#)
2. **Hermes, J. J.**, 2018, *Timing by Stellar Pulsations as an Exoplanet Discovery Method*, *Handbook of Exoplanets*, Springer International Publishing, 6.
Invited review to appear in 'Handbook of Exoplanets,' Springer Reference Works, edited by Hans J. Deeg and Juan Antonio Belmonte [Handbook of Exoplanets, 2018, Springer](#)
1. Winget, D. E., **Hermes, J. J.**, Shawl, S. J., Ashman, K., & Hufnagel, B., 2011, *We're Texas: Astronomy* (Kendall Hunt).
Don Winget and I adapted an astronomy textbook for non-major undergraduates. I contributed a section at the end of each chapter localizing the subject matter to research being done at UT-Austin, and the textbook retails for significantly less than most introductory astronomy texts. [Amazon link, ISBN-10: 0757599192](#)

First-Author Refereed Publications

(Directly supervised students underlined)

19. *"8.9 hr Rotation in the Partly Burnt Runaway Stellar Remnant LP 40-365 (GD 492),"* **Hermes, J. J.**, Putterman, Odelia, Hollands, M. A., Wilson, D. J., Swan, A., Raddi, R., Shen, K. J., & Gänsicke, B. T., 2021, *ApJ*, 914, L3.
18. *"The plunging pirouette of two low-mass stars,"* **Hermes, J. J.**, 2019, *Nature Astronomy*, 3, 690.
17. *"White Dwarf Rotation as a Function of Mass and a Dichotomy of Mode Line Widths: Kepler Observations of 27 Pulsating DA White Dwarfs through K2 Campaign 8,"* **Hermes, J. J.**, Gänsicke, B. T., Kawaler, S. D., Greiss, S., Tremblay, P.-E., Gentile Fusillo, N. P., Raddi, R., Fanale, S. M., Bell, K. J., Dennihy, E., Fuchs, J. T., Dunlap, B. H., Clemens, J. C., Montgomery, M. H., Winget, D. E., Chote, P., Marsh, T. R., & Redfield, S., 2017c, *ApJS*, 232, 23.
16. *"Evidence from K2 for Rapid Rotation in the Descendant of an Intermediate-mass Star,"* **Hermes, J. J.**, Kawaler, S. D., Romero, A. D., Kepler, S. O., Tremblay, P.-E., Bell, K. J., Dunlap, B. H., Montgomery, M. H., Gänsicke, B. T., Clemens, J. C., Dennihy, E., & Redfield, S., 2017d, *ApJ*, 841, L2.
15. *"When flux standards go wild: white dwarfs in the age of Kepler,"* **Hermes, J. J.**, Gänsicke, B. T., Gentile Fusillo, N. P., Raddi, R., Hollands, M. A., Dennihy, E., Fuchs, J. T., & Redfield, S., 2017b, *MNRAS*, 468, 1946.
14. *"A Deep Test of Radial Differential Rotation in a Helium-atmosphere White Dwarf. I. Discovery of Pulsations in PG 0112+104,"* **Hermes, J. J.**, Kawaler, S. D., Bischoff-Kim, A., Provencal, J. L., Dunlap, B. H., & Clemens, J. C., 2017, *ApJ*, 835, 277.
13. *"A Second Case of Outbursts in a Pulsating White Dwarf Observed by Kepler,"* **Hermes, J. J.**, Montgomery, M. H., Bell, K. J., Chote, P., Gänsicke, B. T., Kawaler, S. D., Clemens, J. C., Dunlap, B. H., Winget, D. E., & Armstrong, D. J., 2015c, *ApJ*, 810, L5.

12. *"Insights into internal effects of common-envelope evolution using the extended Kepler mission,"* **Hermes, J. J.**, Gänsicke, B. T., Bischoff-Kim, A., Kawaler, S. D., Fuchs, J. T., Dunlap, B. H., Clemens, J. C., Montgomery, M. H., Chote, P., Barclay, T., Marsh, T. R., Gianninas, A., Koester, D., Winget, D. E., Armstrong, D. J., Rebassa-Mansergas, A., & Schreiber, M. R., 2015a, MNRAS, 451, 1701.
11. *"Heavy metals in a light white dwarf: abundances of the metal-rich, extremely low-mass GALEX J1717+6757,"* **Hermes, J. J.**, Gänsicke, B. T., Koester, D., Bours, M. C. P., Townsley, D. M., Farihi, J., Marsh, T. R., Littlefair, S., Dhillon, V. S., Gianninas, A., Breedt, E., & Raddi, R., 2014c, MNRAS, 444, 1674.
10. *"Radius Constraints from High-speed Photometry of 20 Low-mass White Dwarf Binaries,"* **Hermes, J. J.**, Brown, W. R., Kilic, M., Gianninas, A., Chote, P., Sullivan, D. J., Winget, D. E., Bell, K. J., Falcon, R. E., Winget, K. I., Mason, P. A., Harrold, S. T., & Montgomery, M. H., 2014b, ApJ, 792, 39.
9. *"Precision Asteroseismology of the Pulsating White Dwarf GD 1212 Using a Two-wheel-controlled Kepler Spacecraft,"* **Hermes, J. J.**, Charpinet, S., Barclay, T., Pakštienė, E., Mullally, F., Kawaler, S. D., Bloemen, S., Castanheira, B. G., Winget, D. E., Montgomery, M. H., Van Grootel, V., Huber, D., Still, M., Howell, S. B., Caldwell, D. A., Haas, M. R., & Bryson, S. T., 2014a, ApJ, 789, 85.
8. *"A new class of pulsating white dwarf of extremely low mass: the fourth and fifth members,"* **Hermes, J. J.**, Montgomery, M. H., Gianninas, A., Winget, D. E., Brown, W. R., Harrold, S. T., Bell, K. J., Kenyon, S. J., Kilic, M., & Castanheira, B. G., 2013d, MNRAS, 436, 3573.
7. *"Discovery of an Ultramassive Pulsating White Dwarf,"* **Hermes, J. J.**, Kepler, S. O., Castanheira, B. G., Gianninas, A., Winget, D. E., Montgomery, M. H., Brown, W. R., & Harrold, S. T., 2013c, ApJ, 771, L2.
6. *"A New Timescale for Period Change in the Pulsating DA White Dwarf WD 0111+0018,"* **Hermes, J. J.**, Montgomery, M. H., Mullally, F., Winget, D. E., & Bischoff-Kim, A., 2013b, ApJ, 766, 42.
5. *"Discovery of Pulsations, Including Possible Pressure Modes, in Two New Extremely Low Mass, He-core White Dwarfs,"* **Hermes, J. J.**, Montgomery, M. H., Winget, D. E., Brown, W. R., Gianninas, A., Kilic, M., Kenyon, S. J., Bell, K. J., & Harrold, S. T., 2013a, ApJ, 765, 102.
4. *"Rapid Orbital Decay in the 12.75-minute Binary White Dwarf J0651+2844,"* **Hermes, J. J.**, Kilic, M., Brown, W. R., Winget, D. E., Allende Prieto, C., Gianninas, A., Mukadam, A. S., Cabrera-Lavers, A., & Kenyon, S. J., 2012c, ApJ, 757, L21.
3. *"SDSS J184037.78+642312.3: The First Pulsating Extremely Low Mass White Dwarf,"* **Hermes, J. J.**, Montgomery, M. H., Winget, D. E., Brown, W. R., Kilic, M., & Kenyon, S. J., 2012b, ApJ, 750, L28.
2. *"Two New Tidally Distorted White Dwarfs,"* **Hermes, J. J.**, Kilic, M., Brown, W. R., Montgomery, M. H., & Winget, D. E., 2012a, ApJ, 749, 42.
1. *"Discovery of a ZZ Ceti in the Kepler Mission Field,"* **Hermes, J. J.**, Mullally, F., Østensen, R. H., Williams, K. A., Telting, J., Southworth, J., Bloemen, S., Howell, S. B., Everett, M., & Winget, D. E., 2011, ApJ, 741, L16.

Second- and Third-Author Refereed Publications

(Directly supervised students underlined)

37. [“A Test of Spectroscopic Age Estimates of White Dwarfs using Wide WD+WD Binaries,”](#) Heintz, Tyler M., **Hermes, J. J.**, Tremblay, P. E., Baya Ould Rouis, Lou, Redding, J. S., Kaiser, B. C., & van Saders, J. L., 2024, arXiv e-prints, arXiv:2405.02423.
36. [“Measuring White Dwarf Variability from Sparsely Sampled Gaia DR3 Multi-epoch Photometry,”](#) Steen, Maya, **Hermes, J. J.**, Guidry, Joseph A., Paiva, Annabelle, Farihi, J., Heintz, Tyler M., Ewing, Brison B., & Berry, N., 2024, ApJ, 967, 166.
35. [“TIC 378898110: A bright, short-period AM CVn binary in TESS,”](#) Green, M. J., **Hermes, J. J.**, Barlow, B. N., Marsh, T. R., Pelisoli, I., Gänsicke, B. T., Kaiser, B. C., Romero, A., Amaral, L. A., Corcoran, K., Grupe, D., Kennedy, M. R., Kepler, S. O., Munday, J., Ashley, R. P., Baran, A. S., Breedt, E., Brown, A. J., Dhillon, V. S., Dyer, M. J., Kerry, P., King, G. W., Littlefair, S. P., Parsons, S. G., & Sahman, D. I., 2024, MNRAS, 527, 3445.
34. [“An eclipsing 47 min double white dwarf binary at 400 pc,”](#) Munday, J., Tremblay, P. E., **Hermes, J. J.**, Barlow, B., Pelisoli, I., Marsh, T. R., Parsons, S. G., Jones, D., Kepler, S. O., Brown, A., Littlefair, S. P., Hegedus, R., Baran, A., Breedt, E., Dhillon, V. S., Dyer, M. J., Green, M. J., Kennedy, M. R., Kerry, P., Lopez, I. D., Romero, A. D., Sahman, D., & Worters, H. L., 2023, MNRAS, 525, 1814.
33. [“Discovery of dipolar chromospheres in two white dwarfs,”](#) Farihi, J., **Hermes, J. J.**, Littlefair, S. P., Howarth, I. D., Walters, N., & Parsons, S. G., 2023, MNRAS, 525, 1097.
32. [“Two new white dwarfs with variable magnetic Balmer emission lines,”](#) Reding, Joshua S., **Hermes, J. J.**, Clemens, J. C., Hegedus, R. J., & Kaiser, B. C., 2023, MNRAS, 522, 693.
31. [“The Rapid Rotation of the Strongly Magnetic Ultramassive White Dwarf EGGR 156,”](#) Williams, K. A., **Hermes, J. J.**, & Vanderbosch, Z. P., 2022, AJ, 164, 131.
30. [“Testing White Dwarf Age Estimates Using Wide Double White Dwarf Binaries from Gaia EDR3,”](#) Heintz, Tyler M., **Hermes, J. J.**, El-Badry, K., Walsh, Charlie, van Saders, J. L., Fields, C. E., & Koester, D., 2022, ApJ, 934, 148.
29. [“The Pulsating Helium-atmosphere White Dwarfs. I. New DBVs from the Sloan Digital Sky Survey,”](#) Vanderbosch, Zachary P., **Hermes, J. J.**, Winget, D. E., Montgomery, M. H., Bell, K. J., Nitta, A., & Kepler, S. O., 2022, ApJ, 927, 158.
28. [“Searching for TESS Photometric Variability of Possible JWST Spectrophotometric Standard Stars,”](#) Mullally, S. E., Sloan, G. C., **Hermes, J. J.**, Kunz, M., Hambleton, K., Bohlin, R., Fleming, S. W., Gordon, K. D., Kaleida, C., & Mohamed, K., 2022, AJ, 163, 136.
27. [“Discovery of 74 new bright ZZ Ceti stars in the first three years of TESS,”](#) Romero, A. D., Kepler, S. O., **Hermes, J. J.**, Amaral, L. A., Uzundag, M., Bognár, Z., Bell, K. J., VanWyngarden, Madison, Baran, A., Pelisoli, I., Oliveira, G. d. R., Koester, D., Klippel, T. S., Fraga, L., Bradley, P. A., Vučković, M., Heintz, Tyler M., Reding, Joshua S., Kaiser, B. C., & Charpinet, S., 2022, MNRAS, 511, 1574.
26. [“Discovery, TESS Characterization, and Modeling of Pulsations in the Extremely Low-mass White Dwarf GD 278,”](#) Lopez, Isaac D., **Hermes, J. J.**, Calcaferro, L. M., Bell, K. J., Samuels, Adam, Vanderbosch, Zachary P., Córsico, A. H., & Istrate, A. G., 2021, ApJ, 922, 220.
25. [“Relentless and complex transits from a planetesimal debris disc,”](#) Farihi, J., **Hermes, J. J.**, Marsh, T. R., Mustill, A. J., Wyatt, M. C., Guidry, J. A., Wilson, T. G., Redfield, S., Izquierdo, P., Toloza, O., Gänsicke, B. T., Aungwerojwit, A., Kaewmanee, C., Dhillon, V. S., & Swan, A., 2022, MNRAS, 511, 1647.

24. [“I Spy Transits and Pulsations: Empirical Variability in White Dwarfs Using Gaia and the Zwicky Transient Facility,”](#) Guidry, Joseph A., Vanderbosch, Zachary P., **Hermes, J. J.**, Barlow, B. N., Lopez, Isaac D., Boudreaux, T. M., Corcoran, K. A., Bell, K. J., Montgomery, M. H., Heintz, Tyler M., Castanheira, B. G., Reding, Joshua S., Dunlap, B. H., Winget, D. E., Winget, K. I., & Kuehne, J. W., 2021, ApJ, 912, 125.
23. [“Optical Detection of the 1.1 day Variability at the White Dwarf GD 394 with TESS,”](#) Wilson, D. J., **Hermes, J. J.**, & Gänsicke, B. T., 2020, ApJ, 897, L31.
22. [“A White Dwarf with Transiting Circumstellar Material Far outside the Roche Limit,”](#) Vanderbosch, Z., **Hermes, J. J.**, Dennihy, E., Dunlap, B. H., Izquierdo, P., Tremblay, P. E., Cho, P. B., Gänsicke, B. T., Toloza, O., Bell, K. J., Montgomery, M. H., & Winget, D. E., 2020, ApJ, 897, 171.
21. [“An Isolated White Dwarf with 317 s Rotation and Magnetic Emission,”](#) Reding, Joshua S., **Hermes, J. J.**, Vanderbosch, Z., Dennihy, E., Kaiser, B. C., Mace, C. B., Dunlap, B. H., & Clemens, J. C., 2020, ApJ, 894, 19.
20. [“Cool Companions ON Ultrawide orbits \(COCONUTS\). I. A High-gravity T4 Benchmark around an Old White Dwarf and a Re-examination of the Surface-gravity Dependence of the L/T Transition,”](#) Zhang, Z., Liu, M. C., **Hermes, J. J.**, Magnier, E. A., Marley, M. S., Tremblay, P.-E., Tucker, M. A., Do, A., Payne, A. V., & Shappee, B. J., 2020, ApJ, 891, 171.
19. [“Limits on Mode Coherence in Pulsating DA White Dwarfs Due to a Nonstatic Convection Zone,”](#) Montgomery, M. H., **Hermes, J. J.**, Winget, D. E., Dunlap, B. H., & Bell, K. J., 2020, ApJ, 890, 11.
18. [“Constraining planet formation around 6-8 Msun stars,”](#) Veras, D., Tremblay, P.-E., **Hermes, J. J.**, McDonald, C. H., Kennedy, G. M., Meru, F., & Gänsicke, B. T., 2020, MNRAS, 493, 765.
17. [“A refined search for pulsations in white dwarf companions to millisecond pulsars,”](#) Kilic, M., **Hermes, J. J.**, Córscico, A. H., Kosakowski, A., Brown, W. R., Antoniadis, J., Calcaferro, L. M., Gianninas, A., Althaus, L. G., & Green, M. J., 2018, MNRAS, 479, 1267.
16. [“A 15.7-min AM CVn binary discovered in K2,”](#) Green, M. J., **Hermes, J. J.**, Marsh, T. R., Steeghs, D. T. H., Bell, K. J., Littlefair, S. P., Parsons, S. G., Dennihy, E., Fuchs, J. T., Reding, J. S., Kaiser, B. C., Ashley, R. P., Breedt, E., Dhillon, V. S., Gentile Fusillo, N. P., Kerry, P., & Sahman, D. I., 2018a, MNRAS, 477, 5646.
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