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vers. 2022Feb



Employment History

- 2014 – ··· **Professor** — Physics & Astronomy, University of Wyoming.
- 2008 – 2014 **Associate Professor** — Physics & Astronomy, University of Wyoming.
- 2002 – 2008 **Assistant Professor** — Physics & Astronomy, University of Wyoming.
- 1999 – 2002 **Associate Scientist** — Department of Astronomy, University of Wisconsin, Madison.
- 1997 – 1999 **Hubble Postdoctoral Fellow** — University of California, Santa Cruz.

Education

- 1991 – 1997 **Ph.D., University of Minnesota** — Astrophysics.
Dissertation title: *The Impact of Massive Starbursts on the Chemical Evolution of Galaxies*
- 1987 – 1991 **B.S., University of Iowa** — Physics & Astronomy.
with Honors and Distinction

Academic Interests

- Observational astronomy; chemical compositions of galaxies; evolution of massive stars and star clusters; extra-solar planets; astronomical instrumentation; observatory operations; active learning and innovation in classroom teaching; holistic student mentoring

Commonly Taught Courses

- PHYS1210 Calculus-based Physics for Scientists & Engineers**, since 2023. This required class for all engineering and science majors is the entry to a technical career. Developed studio-style interactive classroom course in 2013 and annually since. This course provides an opportunity to mentor young graduate students in active-learning integrated-classroom teaching methods.
- ASTR4610 Introduction to Astrophysics**, since 2002. This junior/senior-level required class integrates physics knowledge with astronomical principles using a programming language to model real astrophysical data. Cited by former students as a strong foundation for graduate school.
- ASTR5150 Observational Techniques**, since 2003. A graduate class taken by some advanced undergrads, this class provides practical tutorials in planning and analyzing astronomical data from UW telescopes and other observatories. May include field trips to telescopes.
- ASTR5490 Planets and Their Stars**, since 2020. A graduate class covering recent advances and observational approaches to measuring planets around other stars.
- ASTR1050 Introduction to Astronomy**, since 2007. A non-mathematical large-enrollment class satisfying general science requirements for all majors.

Graduate Students Advised (advising expectations document)

- Kelsey Johnson, Dissertation Title: *The properties of super star clusters in a sample of starburst galaxies* — (with Prof. Peter Conti, University of Colorado, as the primary advisor; PhD 2001 → Postdoc, University of Wisconsin → Faculty, University of Virginia)
- Jon Darnel (MS 2005 → Research Associate at Cooperative Institute for Research in Environmental Sciences, Boulder, CO)
- Brian Uzpen, Dissertation Title: *Identification of main-sequence stars with mid-infrared excesses: Frequency of β Pictoris analogs and transition disk systems* — (PhD 2010 → Physics Faculty, Laramie County Community College)
- Dan Kiminki, Dissertation Title: *Massive binary stars as a probe of massive star formation* — (PhD 2011 → postdoc U. Arizona → Scientist, GEOST Corp, Tucson, AZ)
- Michael Alexander, Dissertation Title: *On the formation and evolution of stars and star clusters in the Milky Way* — (PhD 2013 → Postdoc, Lehigh University → Analyst, National Geospatial Intelligence Agency, Washington D.C.)
- Carlos Vargas, Dissertation Title: *Spatial and temporal variations of reddening parameters toward HII regions in the Milky Way galaxy* — (PhD 2013 → Adjunct Faculty, Hollins University)
- Michael Lundquist, Dissertation Title: *Stars and Star Clusters: A Look at Intermediate-Mass Star-Forming Regions* — (PhD 2015 → Gemini Telescope Postdoctoral Fellowship → Postdoc, University of Arizona → Scientist, Gemini Observatory, Hilo, HI)
- Daniel Baldwin (MS 2018 → Scientific Programmer, Tyto Athene LLC)
- David Kasper, Dissertation Title: *Exoplanet confirmation and characterization utilizing the Red Buttes Observatory and Wyoming Infrared Observatory and associated upgrades to Red Buttes Observatory* — (co-advised with Hannah-Jang-Condell; PhD 2019 → Postdoc, University of Chicago)
- William Chick, Dissertation Title: *The Wind Beneath My Wings: The Spectral and Kinematic Properties of the Central Stars of Stellar Bow Shock Nebulae* — (PhD 2020 → Private Sector)
- Riley Jordan (MS 2020 → Software Engineer, Private Sector)
- Jason Rothenberg (co-advised with Prof. M Pierce; MS 2021 → Instrument Scientist, Sierra Space Corp., Denver CO)
- Ashley Piccone (MS 2021 → Science Writer, American Institute of Physics)
- Cristilyn Gardner (PhD exp 2023)
- Evan Cook (PhD exp 2025)
- Jordan Bartlett (PhD exp 2026)
- Cade Freels (PhD exp 2027)

Postdoctoral Scholars Supervised

- 2003-2006 ■ Brent Buckalew → Jacobs Aerospace, Houston, TX
- 2004-2007 ■ Karen Kinemuchi → Science Staff, Apache Point Observatory, NM

Undergraduate and High School Students Advised

- Jeff Wall (senior project, B.S. 2003), Sarah Giondoni (senior project, B.S. 2003), Dave Frankford (research, B.S. 2007), Jodi Frankford (research, B.S. 2007), Leah Simon (REU student, B.S. 2004), Keisuke Fukutani (research, B.S. 2007), Emily Hall (research, B.S. 2007), Mike Ando (REU student, B.S. UCSB 2005), Laura Portscheller (research, B.S. 2007), Ben Kelly (research, B.S. 2007), Sierra Irwin (REU student, B.S. Rice 2007), Emily Beer (REU student, B.S. 2007), Dylan Semler (REU student, B.S. 2006), Georgi Chunev (REU student, B.S. Manchester Coll. 2008), Sarah Bird (REU student, B.S. Missouri 2007→ 2012 PhD in Sweden), Emily May (high school and undergraduate research, B.S. 2010), Clay Trevenan (research, B.S. 2009), Frances Rivera (research, B.S. 2009), Adrian Martinez (research, B.S. 2009), Lisa Humbert (research, B.S. 2009), Megan Bagley (senior thesis, B.S. 2010→ PhD U. Arizona 2019), Emily May (research, B.S. 2010), Ian Gilbert (REU student, B.S. Grove City Coll. 2010→PhD Penn State, 2015), Ian Ewing (research, B.S. 2010), Garrett Long (REU student, B.S. 2013), Walter Wilson (research, B.S. 2013), Rachel Smullen (senior thesis and lead-author paper, B.S. 2014→U. Arizona PhD 2019), Jamison Burke (REU student, B.S. Aswarthmore 2016→UCSB PhD), Katie Lester (REU student, B.S. Lehigh 2014→Georgia St. PhD 2020), Grace Olivier (REU student, B.S. Case Western 2016→Ohio State PhD 2021 exp), Heather Wernke (REU student, B.S. Embry-Riddle 2016→U. Colorado PhD 2021 exp), Steven Munari (REU student, B.S. 2016), Rebecca Sorber (REU student, B.S. 2019), Danielle Schurhammer (research, B.S. 2018), Don Dixon (REU/CAMPARE student, B.S. Cal Poly Pomona 2017→Vanderbilt PhD 2023 exp), Julian Andrews (REU student, B.S. 2019 Cal Poly Pomona), Daniel Lee (REU student, B.S. 2019 Cal Poly Pomona), Alex Schultz (research, B.S. 2021), MJ Lindman (senior thesis, B.S. 2022 exp), Elle Buser (research, B.S. 2022 exp), Sam Norcross (research, H.S. diploma Casper H.S. 2020), Brock Parker (research, B.S. 2023), Franklin Chapman (research, B.S. 2022), Corinne Komlodi (research, B.S. 2024), Tera Swaby (research, B.S. 2025), Alexander Laursen (research, B.S. 2025)

Awards & Recognitions

- Univ. of Wyoming Elbogen Award for Meritorious Classroom Teaching all-campus teaching award—2014
- Promoting Intellectual Engagement (PIE) teaching award, selected by freshmen/sophomore classes; 6 years
- College of Arts & Sciences Extraordinary Merit in Research Award, 2012

University and State Service/Outreach/Leadership

- Administrator, 35-node department linux computer system serving half of the department, 2002– .
- Director of the [Wyoming Infrared Observatory 2.3 m telescope](#), 2008—2017. Supervised two staff; helped implement new telescope control system (2009); directed construction and implementation of new prime focus imaging camera; designed and implemented remote and off-campus observing modes for increased efficiency and safety; trained students in use of the observatory.
- Creator and Co-Director of [Wyoming Astrocamp](#) 9-day science camp for up to 48 high school and middle school students, almost annually since 2003. Designed curriculum; taught lessons; trained and oversaw 8 counselors and 4 in-service teachers.

University and State Service/Outreach/Leadership (continued)

- Creator/promoter/practitioner of “Studio Physics” active-learning classes of PHYS1210, Introduction to Physics for Scientists & Engineers, 2013–ongoing. Students work in assigned groups of 3–4; lecture/lab/discussion are interspersed into three 100-minute classroom sessions each week. Studio-style classes are shown to have >90% attendance, higher student satisfaction, and a lower D/F fraction compared to traditional lecture-style teaching. Early-career graduate student TAs in this course (Jessica Sutter–2015; Emily Jensen–2017; Ashley Piccone–2018,2019; Kiana Henney and Nikhil Patten–2021) are mentored in active-learning techniques, have the opportunity to run class at various times in the semester, and often go on to teach their own classes as the instructor of record as senior graduate students, sometimes winning University-wide teaching awards.
- Research Mentor to >50 undergraduate students, Wyoming Research Scholars, & summer REU students, 2002–
- Director of departmental graduate student fall training, 2022-- .
- Judge, Wyoming State Science Fair, annually since.
- President of the Board of Trustees for the [Laramie Montessori Charter School](#), 2015–2018. Responsible for hiring director, serving as a point of contact between teachers & parents, reporting to the local school board, and complying with State charter school law.
- UW Planetarium show presenter; ≈ 5 shows per year.
- Member, faculty steering committee for the Governor’s Top-Tier Science Initiative, 2014--2018.
- Faculty Advisor, Fellowship of Christian Graduate Students student organization, 2002-- .
- College of Arts & Sciences Curriculum Committee, 2017--2020.
- College of Arts & Sciences Central Committee, 2016--2019.
- UW Faculty Senate, 2003--2004.

Professional Service

- Board Member, Apache Point Telescope Consortium Board of Governors: 2017–2022
- Reviewer for high school science projects, Davidson Institute for Talent Development: 2015–2021
- Review Panel, NASA Astrophysics Data Program: 2021
- Review Panel, National Science Foundation Division of Astronomical Sciences: 2008, 2010, 2014, 2015, 2016, 2017, 2019
- Review Panel, Hubble Space Telescope Time Allocation Committee, 2014
- Review Panel, Spitzer Space Telescope Time Allocation Committee, 2010
- Member of the Time Allocation Committee, National Optical Astronomy Observatory, 2006–2009
- Member of the Users Committee, National Radio Astronomy Observatory, 2003—2006
- Manuscript Reviewer, The Astrophysical Journal, 1–2 articles annually
- Manuscript Reviewer, Astronomy & Astrophysics, 1–2 articles annually
- Manuscript Reviewer, Monthly Notices of the Royal Astronomical Society, ≈ 1 article annually
- Manuscript Reviewer, Publications of the Astronomical Society of the Pacific, ≈ 1 article annually

Grants Awarded

Grants as PI
\$4.9M career

Grants Awarded (continued)

- 02/22 – 01/25  *Lifting the LID on the Nature of Extraplanar Galactic Dust Using Line-of-sight Incremental Dereddening*, NASA Astrophysics Data Program, \$311,191
- 01/22 – 12/22  *The 2022 University of Wyoming Teton STEM Academy*, University of Wyoming Foundation, \$50,000
- 09/22 – 08/25  *A First Measurement of the Extra-Planar Milky Way Extinction Curve*, NASA Future Investigators in NASA Earth and Space Science and Technology, \$135,000
- 09/22 – 08/24  *Obtaining the UV Reddening Curve of Extreme R_V Highly Polarizing Dust Irradiated by ζ Ophiuchus*, NASA Hubble Space Telescope Science Institute, \$61,993
- 01/21 – 12/21  *The 2021 University of Wyoming Teton STEM Academy*, University of Wyoming Foundation, \$50,000
- 09/21 – 08/24  *Collaborative Research: Mass-Loss Rates for OB Stars Driving IR Bowshocks*, NSF-AST, \$281,543
- 01/20 – 12/20  *The 2020 University of Wyoming Teton STEM Academy*, University of Wyoming Foundation, \$50,000
- 01/19 – 12/19  *The 2019 University of Wyoming Teton STEM Academy*, University of Wyoming Foundation, \$50,000
- 09/15 – 09/16  *Probing the Energy Threshold for Triggered Star Formation*, NASA Chandra X-Ray Observatory, \$38,000
- 09/14 – 08/20  *Citizen Science Assists a Novel Measurement of Mass Loss Rates for Massive Stars*, NSF-AST, \$334,600
- 03/14 – 02/15  *The ExxonMobil Bernard Harris Summer Science Camp at the University of Wyoming*, The Bernard Harris Foundation, \$80,000
- 03/13 – 02/14  *The ExxonMobil Bernard Harris Summer Science Camp at the University of Wyoming*, The Bernard Harris Foundation, \$80,000
- 03/12 – 02/13  *The ExxonMobil Bernard Harris Summer Science Camp at the University of Wyoming*, The Bernard Harris Foundation, \$80,000
- 06/11 – 05/14  *SOFIA Imaging of High-Latitude Intermediate-Mass Star Forming Regions*, NASA, Ames Research Center, \$8,000
- 04/11 – 03/15  *A Bold New Generation of Sky Surveys at the Wyoming Infrared Observatory*, NASA EPSCoR, \$750,000
- 03/11 – 02/12  *The ExxonMobil Bernard Harris Summer Science Camp at the University of Wyoming*, The Bernard Harris Foundation, \$80,000
- 08/10 – 07/13  *Triggered Star Formation*, NASA Graduate Student Researchers Program, \$90,000
- 03/10 – 02/11  *The ExxonMobil Bernard Harris Summer Science Camp at the University of Wyoming*, The Bernard Harris Foundation, \$80,000
- 08/09 – 07/13  *Characterizing Companions of the Most Massive Stars*, NSF-AST, \$399,249
- 06/07 – 05/11  *Upgrading the Wyoming Infrared Observatory 2.3 meter Telescope*, NSF-PREST, \$413,396
- 07/06 – 06/09  *Finding the Missing Link: mid-IR Excesses in Galactic Surveys*, NASA Graduate Student Researchers Program, \$84,000
- 07/04 – 07/08  *Launching Wyoming Space Camp*, NASA E/PO, \$45,000
- 09/04 – 08/06  *Resolving the Distance Ambiguity to the Galactic Star Cluster Westerlund 2*, NASA Hubble Space Telescope, \$20,000
- 07/04 – 07/08  *Digital Imaging Experiments for Secondary Science*, NASA STSCI-E/PO, \$9,896

Grants Awarded (continued)

- 08/03 – 07/06 ■ *Discovering Companions of the Most Massive Stars*, NSF-AST, \$315,211
- 01/01 – 12/06 ■ *The Impact of Star Formation Feedback on Galaxy Evolution*, NASA Long-Term Space Astrophysics, \$593,690
- 01/00 – 12/04 ■ *HST STIS Spectroscopy of the Magellanic Bridge*, NASA Hubble Space Telescope, \$56,156
- 09/97 – 08/01 ■ *The Evolution of Star-Forming Galaxies: Bridging the High-Redshift and Low-Redshift Regimes*, NASA Hubble Postdoctoral Fellowship, \$240,000

Grants as co-I

- 01/19 – 12/22 ■ *The NSF REU Program at the University of Wyoming*, NSF, \$260,595 (PI Danny Dale, University of Wyoming)
- 01/18 – 12/22 ■ *Igniting a New Generation of Exoplanet Surveys with FHiRE*, NASA EPSCoR, \$750,000 (PI Hannah Jang-Condell, University of Wyoming)
- 09/17 – 08/23 ■ *Prediction of a Luminous Red Nova in KIC9832227*, NSF-AST, \$190,000 of \$510,000 (PI Lawrence Molnar, Calvin University)
- 01/16 – 12/19 ■ *The NSF REU Program at the University of Wyoming*, NSF, \$256,595 (PI Danny Dale, University of Wyoming)
- 01/11 – 12/14 ■ *The NSF REU Program at the University of Wyoming*, NSF, \$199,595 (PI Danny Dale, University of Wyoming)
- 01/09 – 12/14 ■ *Characterizing Intermediate-Mass Star-Forming Regions*, NASA Astrophysics Data Program, \$140,000 of \$350,000 (PI Charles Kerton, Iowa State University)
- 01/04 – 12/06 ■ *Mid-Infrared Imaging of Young Extragalactic Star Clusters*, NASA Spitzer Space Telescope, \$20,000 (PI Brent Buckalew (postdoc), University of Wyoming)
- 01/04 – 12/05 ■ *The Hot Interstellar Medium of Dwarf Galaxies: The Case of NGC 625*, NASA Chandra X-Ray Observatory, \$16,00 of \$65,000 (PI Evan Skillman, University of Minnesota)
- 01/04 – 12/08 ■ *Development of a New Wide-Field Infrared Camera on the Wyoming Infrared Observatory Telescope*, NSF-MRI, \$740,000 (PI Michael Pierce, University of Wyoming)
- 01/01 – 12/06 ■ *The Galactic Legacy Mid-Plane Survey Extraordinaire*, NASA Spitzer Space Telescope, \$37,460 of \$2,400,000 (PI Ed Churchwell, University of Wisconsin)

Research Publications (>8,400 total citations)

Refereed Journal Articles Underline indicates student co-authors mentored

- 1 **Kobulnicky, H. A.**, Molnar, L. A., Cook, Evan C., & Henderson, L. E. (2022). A Bayesian Analysis of 783 Kepler Close Binaries: Extreme-Mass-Ratio Systems and the Mass Ratio versus Period Lower Limit. *The Astrophysical Journal*, 926(2), 138. [doi:10.3847/1538-4357/ac36d8](https://doi.org/10.3847/1538-4357/ac36d8). arXiv: 2112. [astro-ph.GA]
- 2 Piccone, Ashley N., & **Kobulnicky, H. A.** (2022). A Tale of Three Dust Populations: Variable R_V and Extreme Polarization along Sight Lines toward ζ Ophiuchi. *The Astrophysical Journal*, 924(2), 138. [doi:10.3847/1538-4357/ac36d8](https://doi.org/10.3847/1538-4357/ac36d8). arXiv: 2112.12214 [astro-ph.GA]
- 3 Kanodia, S., Stefansson, G., Cañas, C. I., Maney, M., Lin, A. S. J., Ninan, J. P., ... Wright, J. T. (2021). TOI-532b: The Habitable-zone Planet Finder confirms a Large Super Neptune in the Neptune Desert orbiting a metal-rich M-dwarf host. *The Astronomical Journal*, 162(4), 135. [doi:10.3847/1538-3881/ac1940](https://doi.org/10.3847/1538-3881/ac1940). arXiv: 2107.13670 [astro-ph.EP]

- 4 Oknyansky, V. L., Brotherton, M. S., Tsygankov, S. S., Dodin, A. V., Bao, D. .-, Zhao, B. .-, ... Roth, T. (2021). Multiwavelength monitoring and reverberation mapping of a changing look event in the Seyfert galaxy NGC 3516. *Monthly Notices of the Royal Astronomical Society*, 505(1), 1029–1045. [doi:10.1093/mnras/stab1138](https://doi.org/10.1093/mnras/stab1138). arXiv: 2104.11097 [astro-ph.GA]
- 5 Chick, William T., **Kobulnicky, H. A.**, Schurhammer, Danielle P., Andrews, Julian E., Povich, M. S., Buser, Elle R., ... Wernke, Heather N.. (2020). The Wind beneath My Wings. I. Spectral Types and Multiplicity of the Central Stars Supporting Stellar Bow Shock Nebulae. *Astrophysical Journal Supplement Series*, 251(2), 29. [doi:10.3847/1538-4365/abc0e5](https://doi.org/10.3847/1538-4365/abc0e5)
- 6 Dale, D. A., Anderson, Kristin R., Bran, Louis M., Cox, Isaiah S., Drake, Carolyn L., Lee, Nathan J., ... **Kobulnicky, H. A.** (2020). Radial Star Formation Histories in 32 Nearby Galaxies. *The Astronomical Journal*, 159(5), 195. [doi:10.3847/1538-3881/ab7eb2](https://doi.org/10.3847/1538-3881/ab7eb2). arXiv: 2003.10260 [astro-ph.GA]
- 7 Jayasinghe, Tharindu, Dixon, Don, Povich, M. S., Binder, B., Velasco, J., Lepore, D. M., ... Simpson, R. J. (2019). The Milky Way Project second data release: bubbles and bow shocks. *Monthly Notices of the Royal Astronomical Society*, 488(1), 1141–1165. [doi:10.1093/mnras/stz1738](https://doi.org/10.1093/mnras/stz1738). arXiv: 1905.12625 [astro-ph.GA]
- 8 **Kobulnicky, H. A.**, Chick, William T., & Povich, M. S. (2019). Mass-loss Rates for O and Early B Stars Powering Bow Shock Nebulae: Evidence for Bistability Behavior. *The Astronomical Journal*, 158(2), 73. [doi:10.3847/1538-3881/ab2716](https://doi.org/10.3847/1538-3881/ab2716)
- 9 Kasper, David H., Cole, Jackson L., Gardner, Cristilyn N., Garver, Bethany R., Jarka, Kyla L., Kar, Aman, ... Dale, D. A. (2019). A transmission spectrum of HD 189733b from multiple broad-band filter observations. *Monthly Notices of the Royal Astronomical Society*, 483(3), 3781–3791. [doi:10.1093/mnras/sty3368](https://doi.org/10.1093/mnras/sty3368). arXiv: 1812.03242 [astro-ph.EP]
- 10 **Kobulnicky, H. A.**, Chick, William T., & Povich, M. S. (2018). Demonstration of a Novel Method for Measuring Mass-loss Rates for Massive Stars. *The Astrophysical Journal*, 856(1), 74. [doi:10.3847/1538-4357/aab3e0](https://doi.org/10.3847/1538-4357/aab3e0). arXiv: 1803.02794 [astro-ph.SR]
- 11 **Kobulnicky, H. A.**, Schurhammer, Danielle P., Baldwin, Daniel J., Chick, William T., Dixon, Don M., Lee, Daniel, & Povich, M. S. (2017). Infrared Photometric Properties of 709 Candidate Stellar Bowshock Nebulae. *The Astronomical Journal*, 154(5), 201. [doi:10.3847/1538-3881/aa90ba](https://doi.org/10.3847/1538-3881/aa90ba). arXiv: 1710.07892 [astro-ph.SR]
- 12 Molnar, L. A., Van Noord, D. M., Kinemuchi, K., Smolinski, J. P., Alexander, Cara E., Cook, Evan M., ... Steenwyk, S. D. (2017). Prediction of a Red Nova Outburst in KIC 9832227. *The Astrophysical Journal*, 840(1), 1. [doi:10.3847/1538-4357/aa6ba7](https://doi.org/10.3847/1538-4357/aa6ba7). arXiv: 1704.05502 [astro-ph.SR]
- 13 **Kobulnicky, H. A.**, Chick, William T., Schurhammer, Danielle P., Andrews, Julian E., Povich, M. S., Munari, Stephan A., ... Dixon, D. M. (2016). A Comprehensive Search for Stellar Bowshock Nebulae in the Milky Way: A Catalog of 709 Mid-infrared Selected Candidates. *Astrophysical Journal Supplement Series*, 227(2), 18. [doi:10.3847/0067-0049/227/2/18](https://doi.org/10.3847/0067-0049/227/2/18). arXiv: 1609.02204 [astro-ph.SR]
- 14 Findlay, J. R., **Kobulnicky, H. A.**, Weger, J. S., Bucher, G. A., Perry, M. C., Myers, A. D., ... Vogel, C. (2016). A Wide-field Camera and Fully Remote Operations at the Wyoming Infrared Observatory. *Publications of the Astronomical Society of the Pacific*, 128(969), 115003. [doi:10.1088/1538-3873/128/969/115003](https://doi.org/10.1088/1538-3873/128/969/115003). arXiv: 1604.02446 [astro-ph.IM]
- 15 Kasper, David H., Ellis, Tyler G., Yeigh, Rex R., **Kobulnicky, H. A.**, Jang-Condell, H., Kelley, M., ... Weger, J. S. (2016). Remote Operations and Nightly Automation of the Red Buttes Observatory. *Publications of the Astronomical Society of the Pacific*, 128(968), 105005. [doi:10.1088/1538-3873/128/968/105005](https://doi.org/10.1088/1538-3873/128/968/105005). arXiv: 1605.06148 [astro-ph.IM]

- 16 Van Noord, D., Molnar, L., Kinemuchi, K., Steenwyk, S., Alexander, C., Spedden, C., & **Kobulnicky, H. A.** (2016). Predicting a Luminous Red Nova. *Society for Astronomical Sciences Annual Symposium*, 35, 121–126.
- 17 Dale, D. A., Beltz-Mohrmann, Gillian D., Egan, Arika A., Hatlestad, Alan J., Herzog, Laura J., Leung, Andrew S., ... van Zee, L. (2016). Radial Star Formation Histories in 15 Nearby Galaxies. *The Astronomical Journal*, 151(1), 4. [doi:10.3847/0004-6256/151/1/4](https://doi.org/10.3847/0004-6256/151/1/4). arXiv: 1511.03285 [astro-ph.GA]
- 18 Rauw, G., Nazé, Y., Wright, N. J., Drake, J. J., Guarcello, M. G., Prinja, R. K., ... Vink, J. S. (2015). X-Ray Emission from Massive Stars in Cyg OB2. *Astrophysical Journal Supplement Series*, 221(1), 1. [doi:10.1088/0067-0049/221/1/1](https://doi.org/10.1088/0067-0049/221/1/1). arXiv: 1401.8098 [astro-ph.SR]
- 19 Kiminki, Daniel C., **Kobulnicky, H. A.**, Vargas Álvarez, Carlos A., Alexander, Michael J., & Lundquist, Michael J. (2015). Predicting GAIA's Parallax Distance to the Cygnus OB2 Association with Eclipsing Binaries. *The Astrophysical Journal*, 811(2), 85. [doi:10.1088/0004-637X/811/2/85](https://doi.org/10.1088/0004-637X/811/2/85). arXiv: 1508.03108 [astro-ph.SR]
- 20 Smullen, Rachel A., & **Kobulnicky, H. A.** (2015). Heartbeat Stars: Spectroscopic Orbital Solutions for Six Eccentric Binary Systems. *The Astrophysical Journal*, 808(2), 166. [doi:10.1088/0004-637X/808/2/166](https://doi.org/10.1088/0004-637X/808/2/166). arXiv: 1506.06196 [astro-ph.SR]
- 21 Lundquist, Michael J., **Kobulnicky, H. A.**, Kerton, C. R., & Arvidsson, Kim. (2015). A ^{13}CO Survey of Intermediate-mass Star-forming Regions. *The Astrophysical Journal*, 806(1), 40. [doi:10.1088/0004-637X/806/1/40](https://doi.org/10.1088/0004-637X/806/1/40)
- 22 **Kobulnicky, H. A.**, Kiminki, Daniel C., Lundquist, Michael J., Burke, Jamison, Chapman, James, Keller, Erica, ... Brotherton, M. M. (2014). Toward Complete Statistics of Massive Binary Stars: Penultimate Results from the Cygnus OB2 Radial Velocity Survey. *Astrophysical Journal Supplement Series*, 213(2), 34. [doi:10.1088/0067-0049/213/2/34](https://doi.org/10.1088/0067-0049/213/2/34). arXiv: 1406.6655 [astro-ph.SR]
- 23 Lundquist, Michael J., **Kobulnicky, H. A.**, Alexander, Michael J., Kerton, C. R., & Arvidsson, K. (2014). An All-sky Sample of Intermediate-mass Star-forming Regions. *The Astrophysical Journal*, 784(2), 111. [doi:10.1088/0004-637X/784/2/111](https://doi.org/10.1088/0004-637X/784/2/111). arXiv: 1402.0547 [astro-ph.GA]
- 24 **Kobulnicky, H. A.**, Babler, B. L., Alexander, Michael J., Meade, M. R., Whitney, B. A., & Churchwell, E. B. (2013). Effects of Diffuse Background Emission and Source Crowding on Photometric Completeness in Spitzer Space Telescope IRAC Surveys: the GLIMPSE Catalogs and Archives. *Astrophysical Journal Supplement Series*, 207(1), 9. [doi:10.1088/0067-0049/207/1/9](https://doi.org/10.1088/0067-0049/207/1/9)
- 25 Ulusoy, C., Ulaş, B., Gülmez, T., Balona, L. A., Stateva, I., Iliev, I. K., ... Carbognani, A. (2013). Multisite photometric campaign on the high-amplitude δ Scuti star KIC 6382916. *Monthly Notices of the Royal Astronomical Society*, 433(1), 394–401. [doi:10.1093/mnras/stt731](https://doi.org/10.1093/mnras/stt731). arXiv: 1304.6993 [astro-ph.SR]
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