

# Daniel Allen Dale

Harry C. Vaughan Professor of Astronomy  
University of Wyoming

## Academic Record

1998	Ph.D.	Cornell University	Physics
1996	M.S.	Cornell University	Physics
1993	B.S.	University of Minnesota Duluth	Physics & Math—honors; summa cum laude
1989	Diploma	Princeton (MN) High School	co-valedictorian

## Professional Experience

2010–present	Professor	Physics & Astronomy, University of Wyoming
2005–2010	Associate Professor	Physics & Astronomy, University of Wyoming
2001–2005	Assistant Professor	Physics & Astronomy, University of Wyoming
1998–2001	Postdoctoral Scholar	California Institute of Technology

## Administrative Experience

2022–present	Associate Dean	College of Engineering & Physical Sciences, University of Wyoming
2021–2022	Associate Dean	College of Arts & Sciences, University of Wyoming
2020–2021	Interim Dean	College of Arts & Sciences, University of Wyoming
2018–2020	Associate Dean	College of Arts & Sciences, University of Wyoming
2008–2017	Department Head	Physics & Astronomy, University of Wyoming
2006–2008	Director	Wyoming Infrared Observatory

## Awards and Honors

2024 George Duke Humphrey Distinguished Faculty Award  
2023 Coach of the Year, Club Sports  
2022 Teacher of the Year, UW Alumni Association  
2020 Outstanding Contribution to Campus Recreation  
2019 Harry C. Vaughan Professorship in Astronomy  
2007 Extraordinary Merit in Research  
2006 Ellbogen Meritorious Classroom Teaching Award  
2005 Extraordinary Merit in Research  
2004 National Science Foundation CAREER Award  
1995 Clark Award for Excellence in Teaching  
1993 Outstanding Mathematics Senior  
1992 Darland All-American Scholarship  
1989 University of Minnesota Presidential Scholarship

## Grant Funding

60 federal (\$29M)  
02 corporate (\$0.5M)  
18 state (\$1.0M)

## Refereed Publications

334 (33 as first author); *h*-index of 84 (23 for first-author papers); ~27,000 citations

**Graduate Student Committees Chaired:** 30 (22 M.S., 8 Ph.D.)

**Undergraduate Research Assistants:** 134

**Invited Talks at Conferences/Universities:** 39

## Courses Taught

Calculus-based intro physics I & II; computational physics; graduate astrophysics; calculus-based intro astronomy

## Fundraising Experience – \$4.9M

2019,24 Windy Ridge Foundation Astro Camp (\$400k=\$250k+\$150k)  
2019,21,22,23,24 Windy Ridge Foundation Harry C. Vaughan Professorship (\$2.5M=\$520k+\$145k+\$121k+\$95k+\$1.6M)  
2014 Burnett Graduate Fellowship (\$100k)  
2013,14 Windy Ridge Foundation Harry C. Vaughan Planetarium (\$1.575M=\$700k+\$875k)  
2009 Bessey Graduate Fellowship estate gift commitment (\$300k)  
2009 Bunch Graduate Fellowship (\$60k)

## **National Professional Service & Experience**

Board of Trustees, American Astronomical Society (2024–present)  
Member, Financial Review Committee, NASA James Webb Space Telescope (2021–2024)  
Member, Exec Council of the Science Advisory Committee, NSF Next Generation Very Large Array (2017–2021)  
Reviewer, Whitman College astronomy program (2018)  
Member, Senior Review team of NASA’s Stratospheric Observatory For Infrared Astronomy (SOFIA; 2018)  
Advocate; lobbied legislators and staff on Capitol Hill on behalf of science research (2014, 2018)  
Member, numerous NSF and NASA grant review panels  
Reviewer, 100+ journal manuscript submissions; multiple science textbooks

## **International Professional Service & Experience**

Member, Flanders Research Foundation Review College (Belgium; 2020–present)  
Member, numerous organizing committees for international astronomy conferences  
Reviewer, U.S. Civilian Research and Development Foundation (U.S./Russian collaboration)  
Reviewer, Universidad de Antofagasta astronomy graduate program (Chile)  
Reviewer, research proposals for National Centre for Space Studies (France)  
Reviewer, research proposals for Nazerbayev University (Kazakhstan)  
Reviewer, research proposals for South African National Research Foundation  
Reviewer, research proposals for Israeli National Science Foundation  
Instructor, School for Astronomy (Banyuls, France; 2012, 2023)

## **Major/Relevant UW Service**

Head Coach, UW Women’s Hockey Team (2009–present; ACHA Division I)  
Director, NSF-funded astronomy undergraduate research internship program at UW (2012–present)  
Director, UW Planetarium (2017–present)  
Co-chair, Recruitment & Retention of International Students committee (2022–present)  
Co-chair, Grand Challenges initiative (2019–2022)  
Co-chair, Entrepreneurship/Innovation strategic planning committee (2021)  
Chair, Committee for reorganization of Geology/Geophysics and Petroleum Engineering (2021)  
Chair, Scheduling & Instructional Delivery committee (adjusting for the pandemic; 2020)  
Chair, Enzi STEM Facility Oversight Committee (2015–2016)  
Member, Strategic planning committee for the College of Engineering & Physical Sciences (2022–2023)  
Member, UW/National Park Service AMK Ranch Task Force (2019–2021)  
Member, International Advisory Committee, Global Engagement Office (2021–2024)  
Member, Tenure & Promotion Committee, College of Arts & Sciences (2006–2008)  
Member, Tenure & Promotion Committee, College of Health Sciences (2022–2024)  
Member, Indirect Cost Distribution Committee (2021)  
Member, Science Initiative Task Force (2015–2020)  
Member, UW Symphony Board (2013–2016)

## **State/Community Service, Outreach, & Experience**

Ambassador; 120+ classrooms visited in 26 public schools; hands-on activities & lectures (2005–present)  
Director, *Wyoming Astro Camp*; 500+ schoolchildren participants (2003–present)  
Organizer, UW–WY community college physics articulation meetings (2008–2017)  
Alumnus, Leadership Wyoming Class of 2021  
Member, Audit & Compliance Committee, Ivinson Memorial Hospital (2021–present)  
Member, Aspen Highlands Homeowners Association Board (2021–present)  
Member, Pope Springs Road District Board (2018–2020)

## **Academic Leadership Experience**

I have served as Interim Dean or Associate Dean since 01 January 2018. In my year as Interim Dean of the College of Arts & Sciences, I oversaw 20 academic units, 350+ faculty, 80+ staff, 4000+ majors, 1000+ minors, and an annual budget north of \$70M including salaries, benefits, and research expenditures. The 20 units spanned the fine arts, humanities, social sciences, biological sciences, math/stats, physical sciences, and interdisciplinary fields. As Associate Dean of Arts & Sciences, my primary duties included overseeing graduate education and all financial matters—budgets, scholarships, foundation accounts, and start-up negotiations. As Associate Dean for Engineering & Physical Sciences, I assist with graduate education, budgeting, personnel, the mentoring of first-year faculty, and the process of transitioning the physical sciences to this newly-established college. I have served in additional leadership roles outside of the Dean’s Office, including chairing or co-chairing the Grand Challenges Initiative, the strategic planning committee for entrepreneurship and innovation, and a new initiative to recruit and retain international students.

## Extramural Funding

- 2024-2027: “Decoding stellar feedback in action with an HST+MUSE+JWST full-disk survey of starburst galaxy prototype NGC 253”  
PI: D. Thilker; 11 CoIs  
NASA Hubble Space Telescope  
\$149,448
- 2024-2027: “Unveiling the physics that govern massive star-formation in extragalactic Central Molecular Zones”  
PI: E. Schinnerer; 30 CoIs  
NASA James Webb Space Telescope  
\$523,367
- 2024-2027: “Resolving gas, star formation and feedback in nearby galaxies with an HST+JWST+ALMA Treasury”  
PI: D. Thilker; 30 CoIs  
NASA Hubble Space Telescope  
\$424,610
- 2024-2027: “Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star formation in local galaxies”  
PI: F. Belfiore; 21 CoIs  
NASA Hubble Space Telescope  
~\$190,000
- 2023-2026: “The JWST Whirlpool Galaxy Treasury”  
PI: K. Sandstrom; coPI: **D. Dale**; 47 CoIs  
NASA James Webb Space Telescope  
\$836,235
- 2023-2026: “Beholding star cluster formation, feedback, and evolution with the ‘Evil Eye’”  
PI: J. Sun; 25 CoIs  
NASA James Webb Space Telescope  
~\$30,000
- 2023-2026: “A JWST Census of the Local Galaxy Population: Anchoring the Physics of the Matter Cycle”  
PI: A. Leroy; 56 CoIs  
NASA James Webb Space Telescope  
\$1,450,000
- 2023-2026: “Resolving HII Regions and ISM Structure Across the Milky Way Analog NGC 253”  
PI: A. Leroy; 40 CoIs  
NASA James Webb Space Telescope  
~\$220,000
- 2023-2026: “REU Site: Wyoming Astronomy”  
PI: **Daniel Dale**; Co-PI Chip Kobulnicky  
NSF Special Programs in Astronomy  
\$336,515
- 2022-2025: “Embedded Star Formation in Nearby Galaxies: The Advent of Parsec Scale Studies beyond the Magellanic Clouds”  
PI: J. Lee; 8 CoIs  
NASA James Webb Space Telescope  
~\$279,000
- 2022-2025: “Halfway to the peak: A bridge program to map coeval star formation and supermassive black hole growth”  
PI: A. Pope; 19 CoIs  
NASA James Webb Space Telescope  
~\$246,000
- 2022-2025: “The First Ever Low Metallicity PDR Benchmark”  
PI: K. Sandstrom; 13 CoIs  
NASA James Webb Space Telescope  
~\$160,000

- 2022-2025: “Come Out, Come Out, Wherever You Are: Seeking All the Massive Young Clusters Hidden in the Antennae”  
PI: R. Chandar; 8 CoIs  
NASA James Webb Space Telescope  
~\$57,000
- 2022-2025: “A JWST-HST-VLT/MUSE-ALMA Treasury of Star Formation in Nearby Galaxies”  
PI: J. Lee; 41 CoIs  
NASA James Webb Space Telescope  
\$1,095,000
- 2022-2025: “Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds”  
PI: A. Bolatto; 32 CoIs  
NASA James Webb Space Telescope  
\$540,545
- 2022-2025: “Structure formation and baryonic cycling in the edge-on galaxy NGC891”  
U.S. Admin PI: **Daniel Dale**; Science PI: I. DeLooze; 29 CoIs  
NASA James Webb Space Telescope  
\$178,398
- 2021-2022: “Inclusive Excellence”  
PI: R. Watson; 36 CoIs  
Howard Hughes Medical Institute  
\$30,000
- 2019-2022: “SOFIA heralds a new era of measuring the magnetic fields of galaxies”  
PI: E. Lopez-Rodriguez; 17 CoIs  
NASA: SOFIA—Stratospheric Observatory for Infrared Astronomy  
\$1,000,000
- 2019-2022: “REU Site: Wyoming Astronomy”  
PI: **Daniel Dale**; Co-PI Chip Kobulnicky  
NSF Special Programs in Astronomy  
\$272,306
- 2019-2022: “PHANGS-HST: Linking Stars and Gas throughout the Scales of Star Formation”  
PI: J. Lee; 19 CoIs  
NASA *Hubble* Space Telescope  
~\$1,200,000
- 2017-2018: “Short Spacing Issues for the Mapping of Nearby Galaxies”  
PI: P. Teuben; CoPI **D. Dale**  
NRAO  
\$42,830
- 2017-2019: “Dwarfs and Giants: Massive Stars in Little Dwarf Galaxies”  
PI: J. Andrews  
NASA *Hubble* Space Telescope  
\$151,435
- 2016-2019: “REU Site: University of Wyoming Astronomy”  
PI: **Daniel Dale**; Co-PI Chip Kobulnicky  
NSF Special Programs in Astronomy  
\$256,595
- 2016-2019: “Young Star Groups in Dwarf Galaxies”  
PI: D. Calzetti; 4 CoIs  
NASA *Hubble* Space Telescope  
~\$60,000
- 2014-2016: “LEGUS: Legacy ExtraGalactic UV Survey”  
PI: D. Calzetti  
NASA *Hubble* Space Telescope  
\$1,200,000

- 2014-2017: “Recruiting More Physics Education Majors at the University of Wyoming”  
PI: **D. Dale**  
American Physical Society  
\$19,841
- 2014-2021: “Sustaining Wyoming’s Advancing Reach in Mathematics and Science (SWARMS)”  
PI: A. Burrows; 4 Co-PIs  
NSF Division of Undergraduate Education  
\$1,186,365
- 2013: “Wyoming AstroCamp”  
PI: **D. Dale**  
NASA Summer of Innovation Mini-Award  
\$2,500
- 2012-2015: “A Herschel/PACS mapping of far-infrared emission lines from the nuclear spiral in M31”  
PI: Z. Li; 7 co-Is  
ESA *Herschel* Space Observatory  
\$49,978
- 2012-2015: “After the Fall: Probing Dust and Gas in Post-Starburst Galaxies with Herschel”  
PI: J.D. Smith; Co-PI D.A. Dale; 8 co-Is  
ESA *Herschel* Space Observatory  
\$234,237
- 2011-2014: “Initiating a Bold New Generation of Astronomical Survey at the Wyoming Infrared Observatory”  
PIs: Chip Kobulnicky & Adam Myers; CoIs Lee Armus & Daniel Dale  
NASA EPSCoR  
\$750,000
- 2011-2015: “REU Site: University of Wyoming Astronomy”  
PI: **Daniel Dale**; Co-PI Chip Kobulnicky  
NSF Special Programs in Astronomy  
\$199,585
- 2011-2014: “Stellar Distributions in Dark Matter Halos: Looking Over the Edge”  
PI: L. van Zee; 7 co-Is  
NASA *Spitzer* Space Telescope  
\$613,180
- 2011-2014: “H $\alpha$ -selected galaxies at  $z \sim 2$ ”  
PI: S. Salim; 2 co-Is  
NASA *Spitzer* Space Telescope  
\$45,760
- 2011-2012: “Observations of the Nearby Starburst Galaxy NGC 2146 with FORCAST on SOFIA”  
PI: L. Armus; 15 co-Is  
NASA: SOFIA—Stratospheric Observatory for Infrared Astronomy  
\$12,000
- 2011-2014: “Beyond the Peak: Resolved Far-Infrared Spectral Mapping of Nearby Galaxies with SPIRE/FTS”  
PI: J.D. Smith; Co-PI D.A. Dale; 27 co-Is  
ESA *Herschel* Space Observatory  
\$375,313
- 2010-2016: “Wyoming AstroCamp”  
PI: H.A. Kobulnicky; co-I D.A. Dale  
Harris Foundation/ExxonMobil  
\$480,000
- 2010: “BLISS Concept Study”  
PI: C.M. Bradford; 22 co-Is  
NASA ROSES APRA  
\$228,000

- 2009-2012: "Faint Stellar Distributions in Extended HI Disks"  
PI: Liese van Zee; 7 co-Is  
NASA *Spitzer* Space Telescope  
\$98,000
- 2009-2012: "Extended Stellar Distributions in M83"  
PI: Kate Barnes; 6 co-Is  
NASA *Spitzer* Space Telescope  
\$45,000
- 2008-2011: "MIPS Spectral Energy Distribution Observations of M82"  
PI: Chad Engelbracht; 7 co-Is  
NASA *Spitzer* Space Telescope  
~\$5,000
- 2008-2012: "KINGFISH: Key Insights on Nearby Galaxies: A Far-Infrared Survey w/Herschel"  
PI: R. Kennicutt; 28 co-Is  
ESA *Herschel* Space Observatory  
\$2,223,000
- 2007-2012: "Upgrading the WIRO 2.3 m Telescope"  
PI: Chip Kobulnicky; four co-Is  
NSF PREST: Program for Research and Education with Small Telescopes  
\$413,396
- 2007-2010: "After the Fall: Dust and PAHs in Post-Starburst Galaxies"  
PI: J.D. Smith; six co-Is  
NASA *Spitzer* Space Telescope  
\$123,275
- 2007-2011: "The Local Volume Legacy Survey"  
PI: R. Kennicutt; 17 co-Is  
NASA *Spitzer* Space Telescope  
\$1,300,000
- 2007-2010: "GALEX-Spitzer study of resolved galaxies"  
PI: B. Madore; nine co-Is  
NASA *Spitzer* Space Telescope  
\$139,102
- 2007-2011: "The 5 mJy Extragalactic Spectroscopic Survey"  
PI: G. Helou; 12 co-Is  
NASA *Spitzer* Space Telescope  
\$781,370
- 2007-2010: "Galaxies Across the Octaves: A Chandra Legacy Survey of SINGS Galaxies"  
PI: L. Jenkins; 9 co-Is  
NASA *Chandra* X-ray Telescope  
\$279,412 (783 ks)
- 2006-2011: "Enhancing Science Awareness and Learning for 7<sup>th</sup>/8<sup>th</sup> Grade Wyoming Students"  
PI: Don Roth (Dean of UW Graduate School); four co-Is  
NSF K-12 Education  
\$646,898
- 2006-2009: "Unveil the Nature of Post-Starburst Quasars"  
PI: Zhaohui Shang; six co-Is  
NASA *Spitzer* Space Telescope  
\$67,498
- 2006-2009: "PAH Emission in Low-Luminosity AGN: Ghosts in the Machine"  
PI: J.D. Smith; six co-Is  
NASA *Spitzer* Space Telescope  
\$158,525

- 2005-2008: “Spectral Energy Distributions of Star-Forming Galaxies, from Low Z to ULIRGs”  
PI: Chad Engelbracht; Karl Gordon, Daniel Dale co-Is  
NASA *Spitzer* Space Telescope  
\$28,620
- 2005-2008: “The Physical Context of PAH emission in Galaxies”  
PI: J.D. Smith; nine co-Is  
NASA *Spitzer* Space Telescope  
\$149,387
- 2005-2008: “Quasar Bolometric Luminosity and SEDs from Radio to X-ray”  
PI: Zhaohui Shang; Michael Brotherton, Dean Hines, Daniel Dale co-Is  
NASA *Spitzer* Space Telescope  
\$40,429
- 2005-2008: “M 51 MIR Spectral Cube: A Rosetta Stone for Galaxy Evolution”  
PI: Kartik Sheth; seven co-Is  
NASA *Spitzer* Space Telescope  
~\$50,000
- 2005-2008: “An Ultra-Deep Spitzer Spectral Survey”  
PI: George Helou; seven co-Is  
NASA *Spitzer* Space Telescope  
\$50,000
- 2005-2008: “Quasar Spectral Energy Distributions: The Next Generation”  
PI: Zhaohui Shang; 3 co-Is, 2 collaborators  
NASA Astrophysics Data Program  
\$184,855
- 2004-2009: “Acquisition of a Near-Infrared Camera for the Wyoming Infrared Observatory”  
PI: Michael Pierce; Daniel Dale, Chip Kobulnicky & Michael Brotherton co-Is  
NSF MRI: Major Research Instrumentation  
\$872,898
- 2004-2009: “Wyoming Infrared Observatory’s Summer Undergraduate RA Program”  
PI: Ron Canterna; Michael Pierce, Daniel Dale, Chip Kobulnicky & M. Brotherton co-Is  
NSF Research Experience for Undergraduates Program  
\$461,715
- 2004-2010: “WySCH: The **Wy**oming **S**urvey for **C**osmological **H $\alpha$** ”  
PI: **Daniel Dale**  
NSF Faculty Early Career Development  
\$587,455
- 2002-2003: “Paschen- $\alpha$  Imaging of a SIRTf-Selected Nearby Galaxy Sample”  
NASA *Hubble* Space Telescope  
PI: Robert C. Kennicutt, Jr.; 10 co-Is  
~\$120,000 ( $\leq 80$  snapshots)
- 2000-2007: “SINGS: The Spitzer Infrared Nearby Galaxy Survey”  
PI: Robert C. Kennicutt, Jr.; 14 co-Is  
NASA *Spitzer* Space Telescope  
~\$4,600,000

## State Funding

- 2023-2024: “Upgrading the University of Wyoming Planetarium Projection System”  
PI: **Daniel Dale**  
UW College of Engineering & Physical Sciences  
\$230,000
- 2023-2024: “Galaxy Evolution Using the Hubble and James Webb Space Telescopes”  
PI: **Daniel Dale**  
UW School of Computing  
\$3,059
- 2023-2024: “Understanding Dust Grains in Nearby Galaxies”  
PI: **Daniel Dale**  
UW International Travel Grant  
\$2,000
- 2023-2023: “Modeling Stellar Clusters Observed by the Hubble and Webb Space Telescopes”  
PI: **Daniel Dale**  
UW School of Computing  
\$15,00
- 2022-2023: “Constraining Galaxy Evolution with the James Webb Space Telescope”  
PI: **Daniel Dale**  
UW International Travel Grant  
\$3,500
- 2019-2020: “Accelerating the computational investigation of supermassive sub-parsec binary black holes candidates”  
PI: **Mike Brotherton**; 2 CoPIs  
Science Initiative Faculty Innovation Grant Program  
\$45,000
- 2017-2018: “Probing the Assembly History of Galaxies”  
PI: **Daniel Dale**  
UW College of Arts & Sciences  
\$21,688
- 2017-2018: “Open Educational Resources”  
PI: **Daniel Dale**  
UW Libraries  
\$4,000
- 2017-2018: “Sunday Night Physics at the Science Fair”  
PI: **Daniel Dale**  
UW College of Arts & Sciences  
\$1,850
- 2017-2018: “Star Clusters and Interstellar Dust”  
PI: **Daniel Dale**  
UW Faculty Grant in Aid  
\$7,500
- 2016-2017: “Transforming Undergraduate Research Experiences: Assessing the Community Mentoring Model”  
PI: Chip Kobulnicky; Co-PIs Daniel Dale, Jennifer Forrester  
Wyoming NSF EPSCoR  
\$29,700
- 2015: “Creating Inquiry-Based Labs for Studio Physics”  
PI: **Daniel Dale**  
Wyoming NASA Space Grant Consortium  
\$10,000
- 2014: “Galaxy and AGN Infrared SEDs”  
PI: **Daniel Dale**  
UW International Travel Grant  
\$2,000



- 2011-2012: “University of Wyoming Assessment Academy”  
PI David Thayer  
Ellbogen Center for Teaching and Learning  
\$2,000
- 2010-2013: “Robotics for 21<sup>st</sup> Century Students”  
PIs Tim Slater & **Daniel Dale**  
Wyoming Math Science Partnership program  
\$600,000
- 2005: “Research Experience for Teachers at Wyoming Astro Camp”  
PI: **Daniel Dale**; co-I Chip Kobulnicky  
Wyoming NASA Space Grant Consortium  
\$2,000
- 2002: “Normal Galaxies in the Infrared: Properties and Evolution”  
PI: **Daniel Dale**  
Wyoming NASA EPSCoR Seed Grant & Travel Grant Program  
\$24,042
- 2002: “Constraining the Dark Matter Distribution in Galaxies”  
PI: **Daniel Dale**  
University of Wyoming Basic Research Grant  
\$3,000

**Refereed Publications**     \*,<sup>†</sup>,<sup>‡</sup> denotes undergraduate, graduate, high school teacher

334. Chandar, R. et al. 2024, *Astronomical Journal*, 169, 150  
“The PHANGS-HST-H $\alpha$  Survey: Warm Ionized Gas Physics at High Angular Resolution in Nearby Galaxies with the Hubble Space Telescope”
333. Dale, D. et al. 2025, *Astronomical Journal*, 169, 133  
“PAH Feature Ratios Around Stellar Clusters and Associations in 19 Nearby Galaxies”
332. Cluver, M. et al. 2025, *Astrophysical Journal*, 979, 18  
“The S4G-WISE View of Global Star Formation in the Nearby Universe”
331. Baryon, D. et al. 2025, *Astrophysical Journal*, 978, 135  
“PHANGS-ML: The Universal Relation between PAH Band and Optical Line Ratios across Nearby Star-forming Galaxies”
330. den Brok, J. et al. 2025, *Astronomical Journal*, 169, 18  
“CO Isotopologue-derived Molecular Gas Conditions and CO-to-H<sub>2</sub> Conversion Factors in M51”
329. Brazzini, M.<sup>†</sup> et al. 2024, *Astronomy & Astrophysics*, 691, 173  
“Metallicity calibrations based on auroral lines from PHANGS-MUSE data”
328. Eibensteiner, C.<sup>†</sup> et al. 2024, *Astronomy & Astrophysics*, 691, 163  
“PHANGS-MeerKAT and MHONGOOSE HI observations of nearby spiral galaxies: Physical drivers of the molecular gas fraction,  $R_{\text{mol}}$ ”
327. Neumann, L.<sup>†</sup> et al. 2024, *Astronomy & Astrophysics*, 691, 121  
“A 260 pc resolution ALMA map of HCN(1-0) in the galaxy NGC 4321”
326. Chastenet, J. et al. 2024, *Astronomy & Astrophysics*, 690, 348  
“JWST MIRI and NIRCam observations of NGC 891 and its circumgalactic medium”
325. Whitcomb, C.<sup>†</sup> et al. 2024, *Astrophysical Journal*, 974, 20  
“The Metallicity Dependence of PAH Emission in Galaxies. I. Insights from Deep Radial Spitzer Spectroscopy”
324. Levy, R. et al. 2024, *Astrophysical Journal Letters*, 973, L55  
“JWST Observations of Starbursts: Massive Star Clusters in the Central Starburst of M82”
323. Sutter, J. et al. 2024, *Astrophysical Journal*, 971, 178  
“The Fraction of Dust Mass in the Form of Polycyclic Aromatic Hydrocarbons on 10–50 pc Scales in Nearby Galaxies”
322. Querejeta, M. et al. 2024, *Astronomy & Astrophysics*, 687, 293  
“Do spiral arms enhance star formation efficiency?”
321. Maschmann, D. et al. 2024, *Astronomical Journal*, 168, 5  
“PHANGS-HST Catalogs for  $\sim 100,000$  Star Clusters and Compact Associations in 38 Galaxies. I. Observed Properties”
320. Williams, T. et al. 2024, *Astrophysical Journal Supplements*, 273, 13  
“PHANGS-JWST: Data-processing Pipeline and First Full Public Data Release”
319. Mayker Chen, N.<sup>†</sup> et al. 2024, *Astronomical Journal*, 168, 5  
“H $\alpha$  Emission and HII Regions at the Locations of Recent Supernovae in Nearby Galaxies”
318. Zastrocky, T.<sup>†</sup> et al. 2024, *Astrophysical Journal Supplements*, 272, 29  
“Monitoring AGNs with H $\beta$  Asymmetry. IV. First Reverberation Mapping Results of 14 Active Galactic Nuclei”
317. Baron, D. et al. 2024, *Astrophysical Journal*, 968, 24  
“PHANGS-ML: Dissecting Multiphase Gas and Dust in Nearby Galaxies Using Machine Learning”
316. Sun, J. et al. 2024, *Astrophysical Journal*, 967, 133  
“Hidden Gems on a Ring: Infant Massive Clusters and Their Formation Timeline Unveiled by ALMA, HST, and JWST in NGC3351”
315. Bolatto, A. et al. 2024, *Astrophysical Journal*, 967, 63  
“JWST Observations of Starbursts: Polycyclic Aromatic Hydrocarbon Emission at the Base of the M82 Galactic Wind”

314. Rickards Vaught, R.<sup>†</sup> et al. 2024, *Astrophysical Journal*, 966, 130  
“Investigating the Drivers of Electron Temperature Variations in HII Regions with Keck-KCWI and VLT-MUSE”
313. Martin-Alvarez, S.<sup>†</sup> et al. 2024, *Astrophysical Journal*, 966, 43  
“Extragalactic Magnetism with SOFIA (SALSA Legacy Program). VII. A Tomographic View of Far-infrared and Radio Polarimetric Observations through MHD Simulations of Galaxies”
312. Donnelly, G.<sup>†</sup> et al. 2024, *Astrophysical Journal*, 965, 75  
“The Impact of an Active Galactic Nucleus on Polycyclic Hydrocarbon Emission in Galaxies: The Case of Ring Galaxy NGC 4138”
311. Finn, M.<sup>†</sup> et al. 2024, *Astrophysical Journal*, 964, 13  
“ALMA-LEGUS. II. The Influence of Subgalactic Environments on Molecular Cloud Properties”
310. Finn, M.<sup>†</sup> et al. 2024, *Astrophysical Journal*, 964, 12  
“ALMA-LEGUS. I. The Influence of Galaxy Morphology on Molecular Cloud Properties”
309. Hassani, H.<sup>†</sup> et al. 2024, *Astrophysical Journal Supplements*, 271, 2  
“The PHANGS-AstroSat Atlas of Nearby Star-forming Galaxies”
308. Floyd, M.<sup>†</sup> et al. 2024, *Astronomical Journal*, 167, 9  
“PHANGS Hubble Space Telescope Treasury Survey: Globular Cluster Systems in 17 Nearby Spiral Galaxies”
307. Pathak, D.<sup>†</sup> et al. 2024, *Astronomical Journal*, 167, 39  
“A Two-Component Probability Distribution Function Describes the Mid-IR Emission from the Disks of Star-Forming Galaxies”
306. Bortoloni, G.<sup>†</sup> et al. 2024, *Monthly Notices of the Royal Astronomical Society*, 527, 5339  
“The spatially resolved star formation history of the dwarf spiral galaxy NGC 5474”
305. Stuber, S.<sup>†</sup> et al. 2023, *Astronomy & Astrophysics*, 680, 20  
“Surveying the Whirlpool at Arcseconds with NOEMA (SWAN). I. Mapping the HCN and N<sub>2</sub>H<sup>+</sup> 3mm lines”
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8. **Dale, D.**, Giovanelli, R., Haynes, M., Campusano, L. & Hardy, E. 1999, *Astrophysical Journal Letters*, 510, L11  
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5. **Dale, D.**<sup>†</sup>, Giovanelli, R., Haynes, M., Scodreggio, M.<sup>†</sup>, Hardy, E. & Campusano, L. 1997, *Astronomical Journal*, 114, 455  
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4. Sydor, M., Engholm, J.\* , **Dale, D.\*** & Fergestad, T.\* 1994, *Physical Review B*, 49, 11  
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“Correlation Between Electric Field, Temperature and Carrier Concentration with Respect to Photorefectance Lineshape at the E1 Transition of GaAs”
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“Differential Photorefectance from Modulation-Doped Heterojunctions”

**Postdocs/Postbacs**

2024-2025	Gabrielle Graham	2024 B.S.	U. Wyoming
2016	Jordan Turner	2015 B.S.	U. Wyoming
2008-2010	Shawn Staudaher	2008 B.S.	R.I.T.
2008-2009	Dave Cook	2008 B.S.	U. Minnesota
2008	Micah Schuster	2007 B.S.	U. Wyoming
2007-2008	Cliff Johnson	2007 B.S.	Colby College
2007-2008	Seth Cohen	2007 B.S.	Wesleyan U.
2006-2007	Shianne Kattner	2006 B.S.	U. Wyoming
2005-2007	Rebecca Barlow	2005 B.A.	Mt. Holyoke College
2005	Brent Buckalew	2003 PhD	Rice University
2004-2005	Christine Lamanna	2004 B.A.	Haverford College

**Graduate Students (committees chaired)**

2029 Ph.D.	Taylor Juchau	2023 B.S.	Cal Poly Humboldt
2028 Ph.D.	Anthony Weinbeck	2004 B.S.	M.I.T.
2026 Ph.D.	Kiana Henny	2018 B.S.	Whitman College
2024 M.S.	Aldair Bonilla	2022 B.S.	Cal Poly Pomona
2022 M.S.	Jimmy Lilly	2020 B.S.	U. Arizona
2021 Ph.D.	Jordan Turner	2015 B.S.	U. Wyoming
2021 Ph.D.	Jessica Sutter	2015 B.S.	Whitman College
2019 M.S.	Emily Jensen	2016 B.S.	Boise St.
2018 M.S.T.	Stephanie Mapes	2016 B.S.	U. Hawaii
2017 M.S.	Derek Hand	2016 B.S.	U. Hawaii
2017 Ph.D.	Shawn Staudaher	2008 B.S.	R.I.T.
2015 Ph.D.	Dave Cook	2008 B.S.	U. Minnesota
2015 M.S.	Jyoti Pandey	2013 B.S.	U. Wyoming
2015 M.S.	Tika Neupane	2013 B.S.	Tribhuvan U.
2015 M.S.T.	Sean Smith	1999 B.A.	U. Wyoming
2015 M.S.T.	Barry Fuller		
2015 M.S.	Nasrin Sadeghzadeh	2009 B.S.	
2014 M.S.T.	Coty Tatge	2012 B.S.	Carthage College
2014 M.S.T.	Chris Garcia		
2014 M.S.T.	Michael Sibbernsen	1993 B.S.	U. Nebraska-Kearney
2014 M.S.T.	Mark Reiser	2002 B.S.	U. Wisconsin-Stevens Point
2014 M.S.T.	Heather Malody	2007 B.A.	U. Wyoming
2014 M.S.T.	Joseph Gutierrez	1992 B.S.	Adamson U.
2013 M.S.	Dan Gershun	2011 B.S.	U. Hartford
2012 M.S.	Brian Scoggins	2010 B.S.	U. Wyoming
2011 M.S.T.	Trent Mankowski	2008 B.S.	U. Wyoming
2011 M.S.T.	Zohreh Souri	2009 B.S.	Alzahra U.
2010 Ph.D.	Carolynn Moore	2004 B.A.	Concordia College
2010 M.S.	Clint Law		
2005 M.S.	Travis Laurance	2003 B.S.	U. Tennessee

## Undergraduate Research Assistants

- 2024-2025 Kaycee Conder, Kaitlyn Schultz, Anna Powell, Jasmin Peitz, Lauren Wade (UW)
- 2023-2024 Kaycee Conder, Gabrielle Graham, Kaitlyn Schultz (UW), Sam Crowe (UVa), Elisabeth Brann (Bryn Mawr), Sumitra Dhileepkumar (Utah). Nicole Imming (Rice), Emilio Mendez (Cal Poly Pomona), Zachary Pleska (Lycoming), Kelsey Sako (Cal Poly Humboldt)
- 2022-2023 Gabrielle Graham, Alexander Larsen (UW), Sydney Andrews (Appalachian State), Dylan Hope, William Salazar (Cal Poly Pomona), Ryan McCrory (Rhodes), Julia Meredith (Juniata), Alexandra Rosenthal (UVa), Alexander Sterling (Notre Dame)
- 2021-2022 Mirielle Caradonna (North Texas), Justin Favro (Diablo Valley), Aidan Ferguson (UW), Isabela Gonzalez (Oklahoma Baptist), Lucas Hadding (Grinnell), Hannah Hagler (Whitman), Claire Rogers (Humboldt), Timothy Stack (Illinois Institute of Technology)
- 2020-2021 Corinne Komlodi, Brock Parker (UW), Theodore Bucci (Youngstown), Kaitlin Doublestein (NMU) Cade Freels (Humboldt), Sabrina Helck (Wooster), Samantha Wilkerson (Hamilton)
- 2019-2020 Alex Slane, Dalton Proud, Nathan Lane, Shayn Gilligan (UW)
- 2018-2019 Alex Slane, Chance Blankenship, Dalton Proud, Rebecca Ray (UW), Zack Carter (Trinity), Chelsea Adelman (Cal Poly Pomona), Anna Murphree (Rhodes), Micah Oeur (Cal State Long Beach), Thomas Roth, Kianna Olson (UW), Sam Schonsberg (Montana), Theodora Zastrocky (Regis)
- 2017-2018 Ryan Parziale, Alex Slane, Isaiah de la Torre, Nathan Small, Rebecca Sorber, Chase Smith (UW), Kirby Anderson (CSLongBeach), Louis Bran (CSChannelIslands), Isaiah Cox (East Tennessee St), Carrie Drake (Whitman), Jacob Pilawa (Colgate), Susana Soto (Cerritos College)
- 2016-2017 Ryan Parziale, Kaylee Schimpf, McKell Lyon (UW), Jackson Cole (MTSU), Cristilyn Cortez (CSSanBernadino), Bethany Garver (Seattle Pacific), Kyla Jarka (Colorado College), David PeQueen (Embry Riddle), Daniel Rivera (SDSU), Jack Small (Laramie High)
- 2015-2016 Jordan Turner, Ryan Parziale, Adam Kacmarsky (UW), Neil Bassett (Indiana), Sophie Deam (Iowa), Emily Griffith (Grinnell), William Harvey (Concordia), Brad Lyke (Long Beach), Evan Nunez (El Camino), Catherine Witherspoon (JMU)
- 2014-2015 Julian Andrews (CPP), Grace Olivier (Case Western), Rebecca Sorber (FRCC), Heather Wernke (ERAU), Stephan Munari, Jordan Turner (UW)
- 2013-2014 Gillian Beltz-Mohrmann (Wellesley), Arika Egan (NMU), Alan Hatlestad, Jareth Roberts (UW), Laura Herzog (MSM), Andrew Leung (Rutgers), Jacob McLane (NAU), Katie Lester (Lehigh),
- 2012-2013 Jamie Burke (Swarthmore), James Chapman (MCLA), Erica Keller (Mt. Holyoke), Emily Rolan (Vanderbilt), Eric Topel (St. Olaf), Christopher Phenicie (Minnesota)
- 2011-2012 Amy Miller, Jyoti Pandey, Brandon Lopez (UW), Caroline Roberts (Sewanee), Nicholas Erickson (College of New Jersey), Mara Johnson-Groh (Gustavus Adolphus), David Starcevich (Northwest College), Michelle Mason (Berkeley)
- 2010-2011 Jyoti Pandey (UW)
- 2009-2010 Jyoti Pandey (UW)
- 2008-2009 Jyoti Pandey, Sujan Khandal (UW)
- 2007-2008 Anna Fahlsing, Jake Thatcher (UW), Kimberly Aller (Berkeley), Everett Schlawin (Oberlin)
- 2006-2007 Megan Bagley, Emily May, Micah Schuster, Jake Thatcher (UW), Everett Schlawin (Oberlin)
- 2005-2006 Heather Hanson, Jake Thatcher, Marcus Herman (UW), Lisa Carpenter (Michigan)
- 2004-2005 Heather Hanson (UW), Erick Smith (Tennessee)
- 2003-2004 Kim Dupczak, Keisuke Fukutani (UW), Rebecca Harbison (Nebraska)
- 2002-2003 Richard Cool, Kim Dupczak (UW), Anna Haugsjaa (Montana)
- 2001-2002 Richard Cool, Sarah Stokes (UW), Magdalena Eftimova (De Paul)
- 2000-2001 Eric Murphy (Tufts)
- 1999-2000 Yuki Takahashi (Caltech)
- 1998-1999 Katie Whitman (Cornell)
- 1996-1997 William Schomaker (U. Georgia)
- 1995-1996 Stuart Norton (Wesleyan), Matthew Schwartz (Penn), Elise Furlan (Innsbruck)
- 1994-1995 Michael Dunnigan (Wisconsin)
- 1991-1992 Michael Johnson (Minnesota-Duluth)

## Research Experience for Teachers

- 2006 Michelle Miller (Casper, WY)
- 2005 Chad Sharpe (Casper, WY)
- 2004 Charles Miller (Princeton, MN)
- 2002 Charles Miller (Princeton, MN)