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

2025–present	Interim Dean	College of Engineering & Physical Sciences, University of Wyoming
2022–2025	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

2025	Presidential Scholarly Award
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 Endowed 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

68 federal ($30M)
02 corporate ($0.5M)
18 state ($1.0M)

Refereed Publications

351 (33 as first author); h-index of 86 (23 for first-author papers); ∼29,000 citations

Graduate Student Committees Chaired: 30 (22 M.S., 8 Ph.D.)
Undergraduate Research Assistants: 141
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 (2021,2024-2025)
Member, Science Initiative Task Force (2015–2020)
Member, UW Symphony Board (2013–2016)

State/Community Service, Outreach, & Experience

Ambassador; 130+ classrooms visited in 28 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 have assisted with research, 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

2025-2028: "Wyoming AGN Reverberation Mapping (WARM)"
PI: M. Brotherton; Co-I **D. Dale**
NSF Astronomy & Astrophysics
$406,967

2025-2028: "Anatomy of a fall: Dissecting the environment-driven transformation of late-type Virgo cluster galaxies with HST UV-optical imaging of star clusters, associations, and HII regions"
PI: S. Sarbadhicary; 11 CoIs
NASA Hubble Space Telescope
∼$100,000

2025-2028: "Anatomy of a fall: Dissecting the environment-driven transformation of late-type Virgo cluster galaxies with HST UV-optical imaging of star clusters, associations, and HII regions"
PI: D. Thilker; 25 CoIs
NASA Hubble Space Telescope
∼$400,000

2025-2028: "Our grasp of star formation, feedback, and galaxy evolution is incomplete without a JWST+HST look at the HI-dominated, outer disk of a spiral galaxy"
PI: D. Thilker; 24 CoIs
NASA James Webb Space Telescope
$159,765

2025-2028: "Touched by Fire: Resolving the AGN Impact on PAH Emission in Galaxies"
PI: G. Donnelly; 12 CoIs
NASA James Webb Space Telescope
$77,949

2025-2028: "A Resolved Infrared Census of Star Formation and AGN Activity in Rapidly Quenched Galaxies"
PI: A. Smercina; 11 CoIs
NASA James Webb Space Telescope
$184,438

2025-2028: "Staring at the Void: Supernova-Driven Star Formation and Supression in the Largest Local Superbubble"
PI: R. Chandar; 19 CoIs
NASA James Webb Space Telescope
$203,206

2025-2028: "Measuring sizes of star clusters in nearby galaxies using PHANGS"
PI: O. Gnedin; 7 CoIs
NASA James Webb Space Telescope
$110,000

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: "Hα-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 $7^{\rm th}/8^{\rm th}$ 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**α"
PI: **Daniel Dale**
NSF Faculty Early Career Development
$587,455

2002-2003: "Paschen-α Imaging of a SIRTF-Selected Nearby Galaxy Sample"
NASA *Hubble* Space Telescope
PI: Robert C. Kennicutt, Jr.; 10 co-Is
$\sim$\$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
$\sim$\$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 21st 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 *,†,‡ *denotes undergraduate, graduate, high school teacher*

351. Tilker, D. et al. 2025, *Astrophysical Journal Supplements*, 280, 1
"PHANGS-HST Catalogs for ∼100,000 Star Clusters and Compact Associations in 38 Galaxies. II. Physical Properties from Decision-tree-based Spectral Energy Distribution Fitting of NUV-U-B-V-I Photometry with Categorical Priors Set by Hα Emission, Cluster Morphology, and Other Auxiliary Information"

350. Congiu, E. et al. 2025, *Astronomy & Astrophysics*, 700, 125
"The MUSE view of the Sculptor galaxy: Survey overview and the luminosity function of planetary nebulae"

349. Kim, J. et al. 2025, *Astrophysical Journal*, 988, 215
"Timescales of Polycyclic Aromatic Hydrocarbon and Dust Continuum Emission from Gas Clouds Compared to Molecular Gas Cloud Lifetimes in PHANGS-JWST Galaxies"

348. Patten, N.† et al. 2025, *Astrophysical Journal*, 988, 183
"Fundamental Parameters for Central Stars of 103 Infrared Bow Shock Nebulae"

347. Verwilghen, P. et al. 2025, *Astronomy & Astrophysics*, 700, 3
"Simulating nearby disc galaxies on the main star formation sequence: II. The gas structure transition in low and high stellar mass discs"

346. Chown, R. et al. 2025, *Astrophysical Journal*, 987, 91
"Relationships between Polycyclic Aromatic Hydrocarbons, Small Dust Grains, H_2, and HI in Local Group Dwarf Galaxies NGC 6822 and WLM Using JWST, ALMA, and the VLA"

345. Romanelli, A.† et al. 2025, *Astronomy & Astrophysics*, 698, 296
"The impact of spiral arms on the star formation life cycle"

344. Fang, F.-N. et al. 2025, *Astrophysical Journal Supplements*, 278, 43
"Monitoring AGNs with Hβ Asymmetry. V. Long-term Variation and Evolution of the Broad Hβ Emission-line Profiles"

343. Elmegreen, B. et al. 2025, *Astrophysical Journal*, 986, 13
"An Investigation of Disk Thickness in M51 from Hα, Paα, and Mid-infrared Power Spectra"

342. Draine, B.T. et al. 2025, *Astrophysical Journal Letters*, 984, 42
"Detection of Deuterated Hydrocarbon Nanoparticles in the Whirlpool Galaxy, M51"

341. Rodriguez, M.J. et al. 2025, *Astrophysical Journal*, 983, 137
"Tracing the Earliest Stages of Star and Cluster Formation in 19 Nearby Galaxies with PHANGS-JWST and HST: Compact 3.3μm Polycyclic Aromatic Hydrocarbon Emitters and Their Relation to the Optical Census of Star Clusters"

340. Chown, R. et al. 2025, *Astrophysical Journal*, 983, 64
"Polycyclic Aromatic Hydrocarbon and CO(2–1) Emission at 50–150 pc Scales in 70 Nearby Galaxies"

339. Whitmore, B. et al. 2025, *Astrophysical Journal*, 982, 50
"Empirical SED Templates for Star Clusters Observed with HST and JWST: No Strong PAH or IR Dust Emission after 5 Myr"

338. Pathak, D.† et al. 2025, *Astrophysical Journal*, 982, 140
"Linking Stellar Populations to H II Regions across Nearby Galaxies. II. Infrared Reprocessed and UV Direct Radiation Pressure in H II Regions"

337. Williams, T. et al. 2025, *Monthly Notices of the Royal Astronomical Society*, 538, 3068
"The resolved star-formation efficiency of early-type galaxies"

336. Villanueva, V. et al. 2025, *Astronomy & Astrophysics*, 695, 202
"JWST Observations of Starbursts: Relations between PAH features and CO clouds in the starburst galaxy M82"

335. Fisher, D. et al. 2025, *Monthly Notices of the Royal Astronomical Society*, 538, 3068
"JWST Observations of Starbursts: Cold Clouds and Plumes Launching in the M 82 Outflow"

334. Chandar, R. et al. 2025, *Astronomical Journal*, 169, 150
"The PHANGS-HST-Hα 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. Baron, 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-H2 Conversion Factors in M51"

329. Brazzini, M.† et al. 2024, *Astronomy & Astrophysics*, 691, 173
"Metallicity calibrations based on auroral lines from PHANGS–MUSE data"

328. Eibensteiner, C.† et al. 2024, *Astronomy & Astrophysics*, 691, 163
"PHANGS-MeerKAT and MHONGOOSE HI observations of nearby spiral galaxies: Physical drivers of the molecular gas fraction, $R_{\rm mol}$"

327. Neumann, L.† 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.† 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
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4. Sydor, M., Engholm, J.*, **Dale, D.*** & Fergestad, T.* 1994, *Physical Review B*, 49, 11
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3. Sydor, M., Badakhshan, A,. **Dale, D.***, Alavi, K. & Pathak, R. 1993, *Applied Physics Letters*, 63, 4
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2. Badakhshan, A., Durbin, C., Glosser, R., Alavi, K., **Dale, D.***, Nicholas, S.† & Capuder, K. 1992, *SPIE*, 1678, 194
"Correlation Between Electric Field, Temperature and Carrier Concentration with Respect to Photoreflectance Lineshape at the E1 Transition of GaAs"

1. Sydor, M., Badakhshan, A., Engholm, J.* & **Dale, D.*** 1991, *Applied Physics Letters*, 58, 9
"Differential Photoreflectance from Modulation-Doped Heterojunctions"

Postdocs/Postbacs

2025-	Daniel Maschmann	2022 PhD	Paris Observatory
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

2025-2026	Kaitlyn Schultz, Jasmin Peitz (UW)
2024-2025	Kaycee Conder, Kaitlyn Schultz, Anna Powell, Jasmin Peitz, Lauren Wade (UW), Raven Cilly (Michigan), Javier Fregoso (CS Channel Islands), Alexander Gleason (Oklahoma), Ella Morton (Reed), Grace Nelson (Michigan Tech), Mary Kate Petrykovets (SDSU), Dan Reshan (Case Western)
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 Rolen (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)