

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	

Professional Experience

2021–present	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
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
1999–2001	Adjunct Faculty	Pomona College
1998	Adjunct Faculty	Corning Community College

Awards and Honors

2022 Teacher of the Year, WYO-Gold of the 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

51 federal (\$24M)
02 corporate (\$0.5M)
12 state (\$0.7M)

Refereed Publications

237 (31 as first author); *h*-index of 67 (21 for first-author papers); ~19,000 citations

Graduate Student committees chaired: 27 (20 M.S., 7 Ph.D.)

Undergraduate Research Assistants: 103

Invited Talks at conferences/universities: 38

Courses Taught

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

Fund Raising Experience – \$3.2M

2019 Windy Ridge Foundation Astro Camp (\$250k)
2019 Windy Ridge Foundation Harry C. Vaughan Professorship (\$645k)
2014 Windy Ridge Foundation Harry C. Vaughan Planetarium (\$700k)
2014 Burnett Graduate Fellowship (\$100k)
2013 Windy Ridge Foundation Harry C. Vaughan Planetarium (\$875k)
2009 Bessey Graduate Fellowship estate gift commitment (\$300k)
2009 Bunch Graduate Fellowship (existing endowment augmented by \$60k)

National Professional Service & Experience

Member, Executive Council of the Science Advisory Committee, NSF Next Generation Very Large Array
Member, Financial Review Committee, NASA James Webb Space Telescope
Reviewer, Whitman College Astronomy program (WA)
Advocate; lobbied legislators and staff on Capitol Hill on behalf of science research (2014, 2018)
Director, NSF-funded astronomy undergraduate research internship program at UW (2012–present)
Member, numerous NSF and NASA grant review panels
Referee, 100+ journal manuscript submissions
Reviewer, NASA facility for stratospheric astronomy
Reviewer, multiple science textbooks

International Professional Service & Experience

Member, Flanders Research Foundation Review College (Belgium)
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 South African National Research Foundation
Reviewer, research proposals for Israeli National Science Foundation
Instructor, School for Infrared Cosmology (Banyuls, France)

Major/Relevant UW Service

Head Coach, UW Women's Hockey Team (2009–present)
Director, UW Planetarium (2017–present)
Co-chair, Grand Challenges initiative (2019–present)
Co-chair, Entrepreneurship/Innovation Pillar Team (2021)
Chair, 2-13 committee for reorganization of Geology/Geophysics and Petroleum Engineering (2021)
Chair, Scheduling & Instructional Delivery committee (adjusting for the pandemic; 2020)
Member, Science Initiative Task Force (2015–present)
Member, UW/National Park Service AMK Ranch Task Force (2019–present)
Member, Indirect Cost Distribution Committee (2021)
Member, ORED tech transfer director search committee (2016)
Member, SER director search committee (2020)
Member, selection committee, Wold Centennial Chair in Energy (2020)
Member, selection committee, Occidental Petroleum Chair Energy & Environmental Technologies (2021)
Member, International Advisory Committee, Global Engagement Office (2021–present)
Member, Symphony Board (2013–2016)

State/Community Service, Outreach, & Experience

Ambassador; 70+ visits to 17 WY 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, Iverson Memorial Hospital (2021–present)
Member, Pope Springs Road District board (2018–2020)

Extramural Funding

- 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 super-massive 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 -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 7th/8th 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 **Wyoming Survey for Cosmological H** ”
PI: **Daniel Dale**
NSF Faculty Early Career Development
\$587,455

2002-2003: "Paschen- Imaging of a SIRTf-Selected Nearby Galaxy Sample"

NASA *Hubble* Space Telescope

PI: Robert C. Kennicutt, Jr.; 10 co-Is

~\$120,000 (≤ 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

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**

University of Wyoming 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

237. Lee, J. et al. 2022, *Astrophysical Journal Supplements*, 258, 10
“The PHANGS-HST Survey: Physics at High Angular Resolution in Nearby Galaxies with the Hubble Space Telescope”
236. Deger, S. et al. 2022, *Monthly Notices of the Royal Astronomical Society*, 510, 32
“Bright, relatively isolated star clusters in PHANGS-HST galaxies: Aperture corrections, quantitative morphologies, and comparison with synthetic stellar population models”
235. Thilker, D. et al. 2022, *Monthly Notices of the Royal Astronomical Society*, 509, 4094
“PHANGS-HST: New methods for star cluster identification in nearby galaxies”
234. Chevance, M. et al. 2022, *Monthly Notices of the Royal Astronomical Society*, 509, 272
“Pre-supernova feedback mechanisms drive the destruction of molecular clouds in nearby star-forming disc galaxies”
233. Orozco-Duarte, R.[†] et al. 2022, *Monthly Notices of the Royal Astronomical Society*, 509, 522
“Synthetic photometry of OB star clusters with stochastically sampled IMFs: Analysis of models and HST observations”
232. Lopez-Rodriguez, E. et al. 2021, *Astrophysical Journal*, 923, 150
“Extragalactic Magnetism with SOFIA (Legacy Program) - II: A Magnetically Driven Flow in the Starburst Ring of NGC 1097”
231. Leroy, A. et al. 2021, *Astrophysical Journal Supplements*, 257, 43
“PHANGS-ALMA: Arcsecond CO(2-1) Imaging of Nearby Star-forming Galaxies”
230. Querejeta, M. et al. 2021, *Astronomy & Astrophysics*, 656, 1333
“Stellar structures, molecular gas, and star formation across the PHANGS sample of nearby galaxies”
229. Barnes, A. et al. 2021, *Monthly Notices of the Royal Astronomical Society*, 508, 5362
“Comparing the pre-SNe feedback and environmental pressures for 6000 H II regions across 19 nearby spiral galaxies”
228. Borla, A. et al. 2021, *Astrophysical Journal*, 921, 128
“Extragalactic Magnetism with SOFIA (Legacy Program). I. The Magnetic Field in the Multiphase Interstellar Medium of M51”
227. Stuber, S.[†] et al. 2021, *Astronomy & Astrophysics*, 653, 172
“Frequency and nature of central molecular outflows in nearby star-forming disk galaxies”
226. Menon, S.[†] et al. 2021, *Monthly Notices of the Royal Astronomical Society*, 507, 5542
“The dependence of the hierarchical distribution of star clusters on galactic environment”
225. Whitmore, B. et al. 2021, *Monthly Notices of the Royal Astronomical Society*, 506, 5294
“Star cluster classification in the PHANGS-HST survey: Comparison between human and machine learning approaches”
224. Leroy, A. et al. 2021, *Astrophysical Journal Supplements*, 255, 19
“PHANGS-ALMA Data Processing and Pipeline”
223. Tarantino, E.[†] et al. 2021, *Astrophysical Journal*, 915, 92
“Characterizing the Multiphase Origin of [CII] Emission in M101 and NGC 6946 with Velocity-resolved Spectroscopy”
222. Smith, M.[†] et al. 2021, *Monthly Notices of the Royal Astronomical Society*, 505, 3998
“A multiwavelength study of star formation in 15 local star-forming galaxies”
221. Pessa, I.[†] et al. 2021, *Astronomy & Astrophysics*, 650, 134
“Star formation scaling relations at ~ 100 pc from PHANGS: Impact of completeness and spatial scale”
220. Meidt, S. et al. 2021, *Astrophysical Journal*, 913, 113
“The Organization of Cloud-scale Gas Density Structure: High-resolution CO versus $3.6\mu\text{m}$ Brightness Contrasts in Nearby Galaxies”

219. Calzetti, D. et al. 2021, *Astrophysical Journal*, 913, 37
“Revisiting Attenuation Curves: The Case of NGC 3351”
218. Oknyansky, V. et al. 2021, *Monthly Notices of the Royal Astronomical Society*, 505, 1029
“Multi-Wavelength Monitoring and Reverberation Mapping of a Changing Look Event in the Seyfert Galaxy NGC 3516”
217. Williams, T. et al. 2021, *Astronomical Journal*, 161, 185
“Applying the Tremaine-Weinberg Method to Nearby Galaxies: Stellar-mass-based Pattern Speeds and Comparisons with ISM Kinematics”
216. Kim, J.[†] et al. 2021, *Monthly Notices of the Royal Astronomical Society*, 504, 487
“On the duration of the embedded phase of star formation”
215. Sutter, J.[†], **Dale, D.** et al. 2021, *Monthly Notices of the Royal Astronomical Society*, 503, 911,
“The Case for Thermalization as a Contributor to the [CII] Deficit”
214. Rosolowsky, E., et al. 2021, *Monthly Notices of the Royal Astronomical Society*, 502, 1218
“Giant Molecular Cloud Catalogues for PHANGS-ALMA: Methods and Initial Results”
213. Turner, J.[†], **Dale, D.** et al. 2021, *Monthly Notices of the Royal Astronomical Society*, 502, 1366
“PHANGS-HST: Star Cluster Spectral Energy Distribution Fitting with CIGALE”
212. Anand, G.[†] et al. 2021, *Monthly Notices of the Royal Astronomical Society*, 501, 3621
“Distances to PHANGS Galaxies: New Tip of the Red Giant Branch Measurements and Adopted Distances”
211. Jones, T. et al. 2020, *Astronomical Journal*, 160, 167
“HAWC+ Far-infrared Observations of the Magnetic Field Geometry in M51 and NGC891”
210. Kreckel, K. et al. 2020, *Monthly Notices of the Royal Astronomical Society*, 499, 193
“Measuring the mixing scale of the ISM within nearby spiral galaxies”
209. Sun, J.[†] et al. 2020, *Astrophysical Journal*, 908, 8
“Molecular Gas Properties on Cloud Scales across the Local Star-forming Galaxy Population”
208. Lin, Z.[†] et al. 2020, *Astrophysical Journal*, 896, 16
“The Age Dependence of Mid-infrared Emission around Young Star Clusters”
207. **Dale, D.** et al. 2020, *Astronomical Journal*, 159, 195
“Radial Star Formation Histories in 32 Nearby Galaxies”
206. Wood, A. et al. 2020, *Monthly Notices of the Royal Astronomical Society*, 493, 2410
“Candidate LBV stars in galaxy NGC 7793 found via HST photometry + MUSE spectroscopy”
205. Sun, J.[†] et al. 2020, *Astrophysical Journal*, 892, 148
“Dynamical Equilibrium in the Molecular ISM in 28 Nearby Star-forming Galaxies”
204. Wei, W.[†] et al. 2020, *Monthly Notices of the Royal Astronomical Society*, 493, 3178
“Deep Transfer Learning for Star Cluster Classification: I. Application to the PHANGS-HST Survey”
203. Whitmore, B. et al. 2020, *Astrophysical Journal*, 889, 154
“LEGUS and H₂-LEGUS Observations of Star Clusters in NGC 4449: Improved Ages and the Fraction of Light in Clusters as a Function of Age”
202. Aniano, G.[†] et al. 2020, *Astrophysical Journal*, 889, 150
“Modeling Dust and Starlight in Galaxies Observed by Spitzer and Herschel: The KINGFISH Sample”
201. Herrera, C., et al. 2020, *Astronomy & Astrophysics*, 634, 121
“The headlight cloud in NGC 628: An extreme giant molecular cloud in a typical galaxy disk”

200. Elmegreen, B. et al. 2020, *Astrophysical Journal*, 888, 27
“Spatial Segregation of Massive Clusters in Dwarf Galaxies”
199. Lopez-Rodriguez, E. et al. 2020, *Astrophysical Journal*, 888, 66
“SOFIA/HAWC+ Traces the Magnetic Fields in NGC 1068”
198. Cignoni, M. et al. 2019, *Astrophysical Journal*, 887, 112
“Star Formation Histories of the LEGUS Dwarf Galaxies. III. The Nonbursty Nature of 23 Star-forming Dwarf Galaxies”
197. Crocker, A. et al. 2019, *Astrophysical Journal*, 887, 105
“[C I](1–0) and [C I](2–1) in Resolved Local Galaxies”
196. Schinnerer, E. et al. 2019, *Astrophysical Journal*, 887, 49
“The Gas—Star Formation Cycle in Nearby Star-forming Galaxies. I. Assessment of Multi-scale Variations”
195. Jarrett, T. et al. 2019, *Astrophysical Journal Supplements*, 245, 25
“The WISE Extended Source Catalog (WXSC). I. The 100 Largest Galaxies”
194. Sutter, J.[†], Dale, D. et al. 2019, *Astrophysical Journal*, 886, 60
“Using C[II] 158 μ m Emission from Isolated ISM Phases as a Star-formation Rate Indicator”
193. Hannon, S.[†] et al. 2019, *Monthly Notices of the Royal Astronomical Society*, 490, 4648
“H Morphologies of Star Clusters: A LEGUS study of HII region evolution timescales and stochasticity in low mass clusters”
192. Ho, I. et al. 2019, *Astrophysical Journal*, 885, 31
“Mapping Electron Temperature Variations across a Spiral Arm in NGC 1672”
191. Turner, J.[†], Dale, D. et al. 2019, *Astrophysical Journal*, 884, 112
“An ALMA/HST Study of Millimeter Dust Emission and Star Clusters”
190. Santos, F. et al. 2019, *Astrophysical Journal*, 882, 113
“The Far-infrared Polarization Spectrum of Rho Ophiuchi A from HAWC+/SOFIA Observations”
189. Cook, D. et al. 2019, *Astrophysical Journal*, 880, 7
“Census of the Local Universe (CLU) Narrowband Survey. I. Galaxy Catalogs from Preliminary Fields”
188. Staudaher, S.[†], Dale, D. et al. 2019, *Monthly Notices of the Royal Astronomical Society*, 486, 1995
“The Extended Disc Galaxy Exploration Science Survey: description and surface brightness profile properties”
187. Sacchi, E. et al. 2019, *Astrophysical Journal*, 878, 1
“Star Formation Histories of the LEGUS Spiral Galaxies. I. The Flocculent Spiral NGC 7793”
186. Cook, D. et al. 2019, *Monthly Notices of the Royal Astronomical Society*, 484, 4897
“Star cluster catalogues for the LEGUS dwarf galaxies”
185. Chuss, D. et al. 2019, *Astrophysical Journal*, 872, 187
“HAWC+/SOFIA Multiwavelength Polarimetric Observations of OMC-1”
184. Dale, D., Sutter, J.[†], & Kloster, D.[†] 2019, *The Physics Teacher*, 57, 547
“Asking Real-World Questions with Inquiry-Based Labs”
183. Grasha, K.[†] et al. 2019, *Monthly Notices of the Royal Astronomical Society*, 483, 4707
“The spatial relation between young star clusters and molecular clouds in M51 with LEGUS”
182. Kasper, D.[†] et al. 2019, *Monthly Notices of the Royal Astronomical Society*, 483, 3781
“A transmission spectrum of HD 189733b from multiple broad-band filter observations”
181. Hunt, L. et al. 2019, *Astronomy & Astrophysics*, 612, 51
“Comprehensive comparison of models for spectral energy distributions from 0.1 μ m to 1 mm of nearby star-forming galaxies”

180. Murphy, E.J. et al. 2018, *Science with a Next Generation Very Large Array*, Astronomical Society of the Pacific Conference Series, 517
“The ngVLA Science Case and Associated Science Requirements”
179. Grasha, K.[†] et al. 2018, *Monthly Notices of the Royal Astronomical Society*, 481, 1016
“Connecting Young Star Clusters to CO Molecular Gas in NGC 7793 with ALMA-LEGUS”
178. Hunter, D. et al. 2018, *Astronomical Journal*, 156, 21
“A Comparison of Young Star Properties with Local Galactic Environment for LEGUS/LITTLE THINGS Dwarf Irregular Galaxies”
177. Richards, E.[†] et al. 2018, *Monthly Notices of the Royal Astronomical Society*, 476, 5127
“Baryonic distributions in galaxy dark matter haloes - II. Final results”
176. Shabani, F.[†] et al. 2018, *Monthly Notices of the Royal Astronomical Society*, 478, 3590
“Search For Star Cluster Age Gradients Across Spiral Arms of Three LEGUS Disk Galaxies”
175. Sacchi, E. et al. 2018, *Monthly Notices of the Royal Astronomical Society*, 857, 63
“Star Formation Histories of the LEGUS Dwarf Galaxies. II. Spatially Resolved Star Formation History of the Magellanic Irregular NGC 4449”
174. Messa, M.[†] et al. 2018, *Monthly Notices of the Royal Astronomical Society*, 477, 1683
“The young star cluster population of M51 with LEGUS - II. Testing environmental dependencies”
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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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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
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“Differential Photoreflectance from Modulation-Doped Heterojunctions”

Postdocs/Postbacs

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

Graduate Students (committees chaired)

2026 Ph.D.	Kiana Henny	2020 B.S. Whitman College
2025 Ph.D.	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	20xx 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

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 Starceвич (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)