1000 E. University, Dept. 3905 Laramie, WY 82071, USA

www.physics.uwyo.edu/~davec dcook12@uwyo.edu (612) 810-1638

DAVID O. COOK

UNIVERSITY OF WYOMING Ph.D. Candidate in Astrophysics/Physics, September 2009 – Anticipated: August, 201	Laramie, WY		
UNIVERSITY OF MINNESOTA Bachelor of Science degree in Astrophysics, May 2008 Bachelor of Science degree in Physics, May 2008 Bachelor of Science degree in Chemistry, August 2004	Minneapolis, MN		
 UNIVERSITY OF WYOMING Graduate Student – Astronomy/Physics Dept, September 2009 – Present Advisor: Professor Daniel Dale, Ph.D. Independently developed my thesis project using a panchromatic data set (UV-IR) or Quantified relationships between the distributions of star-forming regions and enviro Constructed FUV-optical-IR spectral energy distributions (SEDs) of these 258 galax 	Laramie, WY f 258 galaxies onment ies		
 UNIVERSITY OF WYOMING Academic Professional Research Scientist – Astronomy Dept, July 2008 – August 200 Advisor: Professor Daniel Dale, Ph.D., with responsibilities for: All data reduction for the 5 year Hα imaging project: WYSH Observations of Hα and optical imaging (8 nights a month for 1 year) 	Laramie, WY)9		
 MCDONALD OBSERVATORY REU Summer Intern, June 2007 – September 2007 Advisor: Resident Astronomer Mathew Shetrone, Ph.D. Derived alpha abundances of the Leo II dwarf galaxy. 	Fort Davis, TX		
 UNIVERSITY OF MINNESOTA Undergraduate Researcher – Astrophysics Dept., September 2006 – June 2008 Advisor: Professor Evan Skillman, Ph.D. Performed photometry on HST images and fit these data to stellar models Generated chronologically and spatially resolved star formation histories of dwarf in Developing my own project exploring the clustered star formation fraction in dwarf in 	Minneapolis, MN regular galaxies. galaxies		
NASA-AURA "LEGUS: Legacy ExtraGalactic UV Survey" as Co-PI: \$36,749 (2014-2015) NASA Space Grant Consortium, Graduate Fellowship (University of Wyoming, 2010-2011) NASA-AURA "ANGST: ACS Nearby Galaxy Treasury Survey" as Co-PI: \$23,000 (2009 – 2010) Ted and Laverne Jones Scholarship, University of Minnesota, May 2007 Undergraduate Research Opportunity Program, University of Minnesota, June 2002			
 Cook et al. 2014, MNRAS (in preparation), "Spitzer Local Volume Legacy (LVL) S Regions: Luminosity Functions" Cook et al. 2014, MNRAS, 245, 1, "Spitzer Local Volume Legacy (LVL) SEDs and F Properties" Cook et al. 2014, MNRAS, 245, 1, "The Spitzer Local Volume Legacy (LVL) Globa Photometry" Cook et al. 2014, MNRAS, 245, 1, "Empirical ugri-UBVRc Transformations for Gal Ocok et al. 2012, ApJ, 751, 100, "The ACS Nearby Galaxy Survey Treasury. X. Quantifying the Star Cluster Formation Efficiency of Nearby Dwarf Galaxies" Cannon et al. 2011, ApJ, 735, 1, "The M81 Group Dwarf Irregular Galaxy DDO165.I. Recent Star Formation with ISM Structures and Kinematics" Cannon et al. 2011, ApJ, 735, 1, "The M81 Group Dwarf Irregular Galaxy DDO165.I. Neutral Gas in a Post-Starburst System" Moore et al. 2010, AJ, 140, 253, "The Wyoming Survey for Hα. III. A Multi-wavelen Attenuation by Dust in Galaxies Out to z ~ 0.4" Dale et al. 2010, ApJ, 712, 189, "The Wyoming Survey for Hα. II. Hα Luminosity functions at z ~ 0.16, 0.24, 0.32, and 0.40" 	tar-Forming Physical Al Optical laxies" I. Connecting I. High Velocity gth Look at		
	 UNIVERSITY OF WYOMING Ph.D. Candidate in Astrophysics/Physics, September 2009 – Anticipated: August, 201 UNIVERSITY OF MINNESOTA Bachelor of Science degree in Physics, May 2008 Bachelor of Science degree in Chemistry, August 2004 UNIVERSITY OF WYOMING Graduate Student – Astronomy/Physics Dept, September 2009 – Present Advisor: Professor Daniel Dale, Ph.D. Independently developed my thesis project using a panchromatic data set (UV-IR) of Quantified relationships between the distributions of star-forming regions and envire Constructed FUV-optical-IR spectral energy distributions (SEDs) of these 258 galax UNIVERSITY OF WYOMING Academic Professional Research Scientist – Astronomy Dept, July 2008 – August 200 Advisor: Professor Daniel Dale, Ph.D., with responsibilities for: All data reduction for the 5 year Hα imaging project: WYSH Observations of Hα and optical imaging (8 nights a month for 1 year) MCDONALD OBSERVATORY REU Summer Intern, June 2007 – September 2007 Advisor: Resident Astronomer Mathew Shetrone, Ph.D. Derived alpha abundances of the Leo II dwarf galaxy. UNIVERSITY OF MINNESOTA Undergraduate Researcher – Astrophysics Dept., September 2006 – June 2008 Advisor: Professor Evan Skillman, Ph.D. Performed photometry on HST images and fit these data to stellar models Generate chronologically and spatially resolved star formation fraction in dwarf; NASA-AURA "ANGST: ACS Nearby Galaxy Treasury Survey" as Co-PI: S36,749 (2014-22) NASA-AURA "ANGST: ACS Nearby Galaxy Treasury Survey Teasury, 2007 Undergraduate Research Opportunity Program, University of Minnesota, June 2002 Cook et al. 2014, MNRAS, (245, 1, "Spitzer Local Volume Legacy (LVL) Sice and Froperies" Cook et al. 2014, MNRAS, 245, 1, "Enpirical ugri-UBWRC Transformations for Gal 		

ORAL

"S	pitzer Local Volume Legacy (LVL) Star-Forming Regions: Luminosity Functions"
•	Space Telescope Science Institute , Local Lunch Group, December 12 th , 2014

"Spitzer Local Volume Legacy (LVL) Dust Properties in Low-Mass Galaxies"

• University of Arizona, A workshop in memory of Charles W. Engelbracht, December 2nd, 2014 "Clustered Star Formation in Nearby Dwarf Galaxies" (Colloquium Talk)

- Denver University, September 18th, 2013
- **University of Minnesota**, September 6th, 2013
- Macalester College, September 5th, 2013

POSTER

.

- "Optical Photometry of the Local Volume Legacy (LVL) Survey" Cook et al. 2013; American Astronomical Society, AAS Meeting #223, #254.36; Washington, D.C. (2014)
 "The ACS Nearby Galaxy Survey Treasury. X. Quantifying the Star Cluster Formation Efficiency of
- Nearby Dwarf Galaxies" **Cook et al. 2012**; Lowell Observatory Workshop: Star Formation in Dwarf Galaxies, Flagstaff, AZ (2012)
- "Derived Abundances of the Leo II Dwarf Galaxy" David Cook, M. Shetrone, M. Siegel, T. Bosler; American Astronomical Society, AAS Meeting #211; Austin, TX (2008)

OBSERVING

Cerro Tololo Inter-American Observatory (CTIO), La Serena, Chile
 Blanco 4m Telescope -5 nights, NEWFIRM infrared imager

McDonald Observatory, University of Texas at Austin:

- HET 11m Telescope -1 night, Low Resolution Spectrograph (LRS)
- Smith 2.7m Telescope -2 nights, Large Cass Spectrometer (LCS)
- Struve 2.1m Telescope -12 nights, Cass Echelle (CE) spectrograph
- 0.8m Telescope -6 nights, Prime Focus Corrector (PFC) imager
- Steward Observatory, University of Arizona:
- BOK 2.3m Telescope -15 nights, 90 prime imager

Wyoming InfraRed Observatory (WIRO), University of Wyoming:

- 2.3m Telescope
 - 300+ nights, Prime Focus Camera (PFC) imager
 - 1 night, WIRO-Long Slit (LS) spectrograph

TEACHING UNIVERSITY OF WYOMING

Instructor, Survey of Astronomy (ASTRO 1050), Summer 2013

- Developed studio style class combined lecture and lab format used to promote critical thinking skills
 - Received the highest evaluation in all teaching related categories
- Substitute instructor for graduate level interstellar medium (ISM) course, one week Fall 2012
 - Presented lectures on graduate level course material
 - Instructed class in short journal article presentations.
- Substitute instructor for graduate level cosmology course, one week Fall 2013
- Presented lectures on graduate level course material

Graduate Teaching Assistant, Survey of Astronomy, 2009-2010

Led laboratories utilizing inquiry-based strategies to promote critical thinking skills.

Physics at Night Tutor, 2009 - 2012

Assisted students with homework problems in all physics courses offered.

```
UNIVERSITY OF MINNESOTA
```

Undergraduate Teaching Assistant, Introduction to Astronomy, 2007-2008

Led weekly laboratories, graded and proctored exams for introductory astronomy class.

PUBLIC OUTREACH UNIVERSITY OF WYOMING

- Astronomy career presentation, 1st graders, Summer 2013
- Judge at Junior Science and Humanities Symposium, March 2012, 2013, & 2014
- Judge for Wyoming State Science Fair, March 2011, 2013, & 2014
- Wyoming Astro-Camp supernovae presentation and demonstration (Summer 2010 & 2011)
- · Conducted star parties and physics demonstrations at the Wyoming State Science Fair (2010-Present)
- · Conducted private & public tours of the Wyoming InfraRed Observatory (WIRO) (2008-Present)
- MCDONALD OBSERVATORY, UNIVERSITY OF TEXAS AT AUSTIN
- · Assisted with star parties including a constellation tour (Summer 2007)

COMPUTER SKILLS	Operating Systems Linux/Unix Macintosh Windows 	Advanced • IDL • IRAF • LaTex • Microsoft Office • Source Extractor	Intermediate • HTML • Shell scripting • C++	Basic • AWK • Python		
PROFESSIONAL MEMBERSHIPS & SERVICES	Junior Member – American Astronomical Society (AAS), 2007 – Present Referee – Monthly Notices of the Royal Astronomical Society (MNRAS), 2013					
PROFESSIONAL COLLABORATIONS	ANGST – Responsible for star clusters in ANGST dwarf galaxies LVL – Responsible for star-forming regions in all LVL galaxies LEGUS – Responsible for star clusters in LEGUS dwarf galaxies					
PROFESSIONAL REFERENCES	FESSIONAL ERENCESDr. Daniel Dale, Professor University of Wyoming 1000 E. University Ave, Dept. 3905 Laramie, WY 82071 Email: ddale@uwyo.edu Phone: +1 (307) 766-5154		Dr. Anil Seth, Assistant Professor University of Utah 201 James Fletcher Bldg. 115 S. 1400 E. Salt Lake City, UT 84112-0830 Email: <u>aseth@astro.utah.edu</u> Phone: +1 (801) 585-7793			
	Dr. Janice Lee, Assistant The Space Telescope Scien 3700 San Martin Dr. Baltimore, MD 21218 Email: jlee@stsci.edu Phone: +1 (410) 338-4262	Astronomer ace Institute				