DR. KATHERINE ANNE ALATALO

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Education

University of California,	Berkeley	Astrophysics	Ph.D., 2012
University of California,	Berkeley	Astrophysics	M.S., 2008
University of Michigan	Physics and	Astronomy	B.S. (High Distinction), 2004

Awards

NSF Graduate Research Fellowship	2006-2009
Phi Beta Kappa	2005
Michigan Space Grant Consortium	2003, 2004

Professional Memberships

The American Astronomical Society	2003-present
Sigma Pi Sigma, Physics Honor Society	2004-present

Professional History

Postdoctoral Scholar, Infrared Processing and Analysis Center, Caltech

Advisor: Phil Appleton (IPAC, Caltech)

- •Multiwavelength follow-up of AGN feedback in NGC 1266
- •Mapping [C II] and [O I] cooling lines from shocks in Hickson Compact Groups

Graduate Student Researcher, UC–Berkeley Dept of Astronomy 2005–2012 Advisors: Carl Heiles (UC – Berkeley) & Lisa Young (NMT, NRAO)

- •Mapping molecular gas rich ETGs in the ATLAS^{3D} survey using CARMA
- •Multiwavelength follow-up of AGN feedback in NGC 1266

Undergraduate Research Assistant, Univ. Michigan Dept of Physics Advisors: Carl Akerlof & Timothy McKay (U. Michigan)

2003-2005

•Following up optical counterparts to gamma-ray bursts

Data Experience

- Reduced data from: SMA, EVLA, CARMA, ROTSE, Herschel and Swift UVOT
- Analyzed: X-ray images & spectra, IR SEDs, UBV photometry, radio & mm images
- Attended: CARMA Summer School (2008), EVLA Synthesis Imaging School (2010) and Winter School in the Canary Islands: Secular Evolution of Galaxies (2011)

Successful Observing Proposals

PI, 48 hrs, CARMA	20	012
Title: "Searching for turbulent, shock-heated molecular gas in		
Hickson Compact Groups through CO mapping"		
PI, 6 hrs, ALMA Early Science		011
Title: "Mapping Shock Chemistry in NGC 1266: Local Example of		
AGN-driven $Feedback$ "		
PI, 20 hrs, CARMA	20	011
Title: "NGC524: Testing Theoretical Understanding of SF-ETGs using		
High Resolution Imaging"		
PI, 3 orbits, HST ACS, WFC3, Cycle 19 (\$32K)	20	011
Title: "Mapping Recent Star Formation and Dust in NGC 1266, a Local		
$Example\ of\ AGN\mbox{-}driven\ Feedback"$		
PI, 8 hrs, VLBA	20	011
Title: "VLBA Observations of the Unusual Galaxy NGC 1266"		
PI, 80 hrs, CARMA	20	011
Title: "The physics of AGN feedback in Markarian 231"		
PI, 32 hrs, SMA	2010-20)11
Title: "High Resolution Observations of the Molecular Outflow in		
NGC 1266: a Candidate for AGN Feedback"		
co-I, 6 hrs, EVLA (PI: Morganti)	20	010
Title: "Atomic and molecular outflow in NGC1266"		
co-I, 12 hrs, EVLA (PI: Young)	20	009
Title: "Mapping HI in the Highly Unusual SB0 NGC1266"		
PI, 30 ks, Chandra ACIS, Cycle 11 (\$23K)	20	009
Title: "NGC 1266: Local Candidate for AGN Feedback"		
PI, 300 hrs, CARMA	2008-20)11
Title: "Probing AGN Feedback in Extraordinary S0 NGC1266"		
co-PI, 500 hrs, CARMA (w/ T. Davis)	2008-20)11
Title: "A Complete Census of Molecular Gas in Local Early-type Galaxies"		
PI, 100 hrs, CARMA	2007 - 20	308
Title: "DEEP CO Observations: Fueling Star Formation at $z \sim 1$ "		
PI, 20 hrs, CARMA	20	007
Title: "Probing the Acceleration Mechanisms of Pulsar Wind Nebulae"		
Scientific Presentations		
Invited talk. "Galaxies vs Black Holes." Castellammare del Golfo, Sicily, Italy	20	013
Poster. "Infrared and Submillimeter Probes of Gas in Galaxies." Pasadena, CA Talk. Friday Lunch Discussion. STSCI. Baltimore, MD		013
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Talk. Monday UVA/NRAO Astronomy Lunch Talks. NRAO. Charlottesville, VA		013
Poster. 221st AAS Meeting. Long Beach, CA		013
Talk. First Year of ALMA Science. Puerto Varas, Chile		012
Poster. XXVIIIth IAU General Assembly. Beijing, China		012
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Talk. Jets 2012. Charlottesville, VA	2012	
Talk. Tuesday Bender group talk. MPE, Garching bei München, Germany		
Thesis talk. 219th AAS Meeting. Austin, TX		
Invited talk. Wednesday astronomy seminar. UC - San Diego, San Diego, CA		
Talk. The Starburst-AGN Connection under the Multiwavelength Limelight		
ESAC-ESA, Villanueva de la Cañada, Spain		
Talk. Wednesday Lunch Seminar. NRAO, Socorro, NM	2011	
Talk. Extragalactic Discussion Group. Institute for Astronomy, Honolulu, HI		
Talk. The Second CARMA Science Symposium. Berkeley, CA	2011	
Poster. Extending the Limits of Astrophysical Spectroscopy. Victoria, BC, Canada	2011	
Poster. 217th AAS Meeting, Seattle, WA		
Talk. Astronomy Seminar. Univ. of Michigan. Ann Arbor, MI		
Talk. Astronomy Seminar. Stony Brook University. Stony Brook, NY		
Talk. Friday "Lunch" Talk. UMass - Amherst. Amherst, MA		
Poster. Molecules in Galaxies. Oxford, England		
Talk. Informal Presentation. Owens Valley Radio Observatory. Big Pine, CA	2010	
Talk. The First CARMA Science Symposium. U. Illinois, Urbana, IL	2009	
Talk. Nearly Normal Galaxies. UC - Santa Cruz, Santa Cruz, CA	2009	
Talk. Lunch Talk. Gemini Observatory. Hilo, HI	2009	
Poster. Swift and GRBs: Unveiling the Relativistic Universe. Venice, Italy	2006	
Poster. Gamma-ray Bursts in the Swift Era. GSFC. Washington, DC	2005	

Teaching & Advising Experience

Teaching & Lab Assistant, "Radio Astronomy Practical Lab", UC-Berkeley	Spring 2007
Teaching Assistant, "Introduction to Astrophysics 1", UC-Berkeley	Fall 2006
Teaching Assistant, "Introduction to Astrophysics 2", UC-Berkeley	Spring 2006
Teaching Assistant, "Introduction to General Astronomy', UC-Berkeley	Fall 2005