

## Craig A. Kulesa

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### Professional Preparation

Ph.D., Astronomy	December 2002	The University of Arizona
B.S., Physics	June 1993	Miami University (Ohio)

<b>Appointments</b>	2012-	Associate Astronomer (Univ. of Arizona)
	2006-	Assistant Astronomer (Univ. of Arizona)
	2003-2006	Assistant Staff Scientist (Univ. of Arizona)
	1998-2002	Research Assistant (Univ. of Arizona)
	1994-1996	Research Assistant (Univ. of Arizona)

### Selected Papers

1. "Large Scale CO and [CI] Emission in the Rho Ophiuchi Molecular Cloud", Kulesa, C.A., Hungerford, A.L., Walker, C.K., Zhang X., & Lane, A., 2005, ApJ, 625, 194
2. "Warm, Dense Molecular Gas in the ISM of Starbursts, LIRGs, and ULIRGs", Narayanan, D., Groppi, C. E., Kulesa, C. A., & Walker, C. K. 2005, ApJ, 630, 269.
3. "Millimeter and Submillimeter Survey of the R Coronae Australis Region", Groppi, C. E., Kulesa, C., Walker, C., & Martin, C. L. 2004, ApJ, 612, 946
4. "The Carbon Inventory in a Quiescent, Filamentary Molecular Cloud in G328", M.G. Burton, M.C.B. Ashley, C. Braiding, J.W.V. Storey, C. Kulesa, D. Hollenbach, M. Wolfire, C. Glueck, G. Rowell, 2014, ApJ, in press
5. "Abundances of H<sub>2</sub>, H<sub>3</sub><sup>+</sup> & CO in Dark Molecular Clouds", Kulesa, C. A. & Black, J. H. 2014, ApJ, submitted

### Experience Relevant to this Proposal:

1. PI of *HEAT*, an automated 0.6-meter terahertz telescope with 0.5-2 THz heterodyne receivers deployed in January 2012 to Ridge A, Antarctica, the best ground-based site for far-IR astronomy.
2. Deputy-PI of the *Stratospheric Terahertz Observatory* (STO), a balloon borne experiment to explore the life cycle of the ISM.
3. Deputy-PI of *Supercam*, a 64-beam, 345 GHz heterodyne receiver to be deployed at the 10-meter HHT telescope in Arizona. Responsibilities focus on the I&T of IF processor and spectrometer, system level testing, telescope integration, data system.
4. With PI-Mccarthy, implemented *ARIES*, the Arizona Infrared Imager and Echelle Spectrometer, for the adaptive optics secondary at the 6.5-meter MMT. Aside from NIRSPEC at Keck, ARIES is the only cross-dispersed NIR echelle spectrometer in the northern hemisphere.