

James De Buizer, Ph.D.

SOFIA Senior Scientist and Senior Manager

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EDUCATION

- 2000 **Ph.D. in Astronomy**, *University of Florida, Department of Astronomy*
- 1995 **B.S. in Astronomy**, *University of Florida, Department of Astronomy*

PROFESSIONAL EXPERIENCE

- 2008 – present
Ames Research Center,
USA
- Stratospheric Observatory For Infrared Astronomy**, *Universities Space Research Association*
- Presently serving as a Senior Scientist and Manager of Planning and Scheduling for SOFIA. Duties include observation and flight planning, strategic long-term planning, and personal research.
 - Served 6 years as the Manager for Science Operations overseeing Instrument Scientists, Facility Instrumentation, Flight Planning, and User Support.
 - Served 6 years as the Instrument Scientist for the mid-infrared camera and spectrometer, FORCAST. Duties included commissioning and characterization of this first-light instrument and the observatory.
- 2003 – 2007
La Serena, Chile
- Gemini Observatory**, *Association of Universities for Research in Astronomy*
- Lead Instrument Scientist for the mid-infrared camera and spectrometer, T-ReCS. Duties included commissioning and characterization of the instrument on the Gemini South telescope, instrument maintenance and upgrading, user support, personal research.
- 2000 – 2003
La Serena, Chile
- Cerro Tololo Inter-American Observatory**, *Assoc. of Universities for Research in Astronomy*
- Postdoctoral Fellow; 100% personal research position
- 1997 – 2000
Gainesville, FL, USA
- PhD Candidate**, *University of Florida Infrared Laboratory*
- Research Assistant. Duties included instrument maintenance and operation, and user support for the mid-infrared camera, OSCIR. Helped commission the instrument on IRTF, Keck, Gemini North, and the CTIO Blanco 4-m, and served as instrument operator and user support scientist when visiting those facilities.

PUBLICATION SUMMARY

Total publications: 95
Total refereed publications: 62 (20 first author)
Total citations: over 2000 (h-index = 28)

MAIN RESEARCH AREAS

- Massive star formation: high-mass protostellar objects to giant HII regions
- IR and mm studies of jets and outflows from young stellar objects
- Maser emission in star-forming regions
- Circumstellar accretion, protoplanetary, and debris disks
- The Supernova 1987A remnant
- Infrared instrumentation



GRANTS AND AWARDS (IN LAST 12 YEARS)

2018	SOFIA Cycle 6 Research Program - \$71,000, <i>Revealing the Embedded Structures and Sources within Giant HII Regions: Wrapping up the Survey</i>
2017	SOFIA Cycle 5 Research Program - \$167,000, <i>Revealing the Embedded Structures and Sources within Giant HII Regions: Wrapping up the Survey</i>
2015	SOFIA Cycle 3 Research Program - \$78,000, <i>Revealing the Embedded Structures and Sources within Giant HII Regions</i>
2014	SOFIA Cycle 2 Research Program - \$26,000, <i>Revealing the Embedded Structures and Sources within Giant HII Regions</i>
2013	SOFIA Cycle 1 Research Program - \$29,200, <i>Revealing the Embedded Structures and Sources within Giant HII Regions</i>
2011	NASA Group Achievement Award for SOFIA Initial Science Flight Team
2010	NASA Group Achievement Award for SOFIA First Light Flight Team