James Michael De Buizer

Astronomer

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www.jim-debuizer.net Santa Clara, CA, USA

Principal scientist and senior manager with over 25 years of research and technical experience working with astronomical instrumentation as well as observatory and instrumentation engineering teams. An established leader in the scientific community and recognized expert in infrared astronomical studies, especially in the field of high mass star formation. A highly regarded researcher and science communicator with over 65 peer-reviewed publications, over two dozen press or public engagement articles, and numerous invited scientific and public talks. Principal Investigator of a research team that has secured over $700K in funding, and co-Investigator on several large international research collaborations. Led and oversaw the development, delivery, integration, calibration, and optimization of numerous instruments at multiple premier astronomical facilities.

PROFESSIONAL EXPERIENCE

SETI Institute — Mountain View, CA, USA

2024-present Research Scientist

Stratospheric Observatory for Infrared Astronomy & Universities Space Research Association — Moffett Field, CA, USA

2023-2024 SOFIA Assistant Director for Science & USRA Principal Scientist

2019-2022 SOFIA Science Mission Operations Senior Manager & USRA Senior Scientist

2013-2019 SOFIA Manager for Science Operations & USRA Senior Scientist

2008-2013 SOFIA Lead Instrument Scientist & USRA Scientist

Gemini Observatory — La Serena, Chile

2003-2007 Gemini Observatory Science Fellow & Instrument Scientist

Cerro Tololo Inter-American Observatory — La Serena, Chile

2000-2004 Postdoctoral Research Fellow

EDUCATION

Doctor of Philosophy in Astronomy 2000
University of Florida Gainesville, FL, USA

Bachelor of Science in Astronomy 1995
Magna Cum Laude
University of Florida Gainesville, FL, USA

Languages: English (Native Speaker), Spanish (Independent User - CEFR Level B1/B2)

SERVICE

- Presently serving on the Gemini Observatory Science and Technology Advisory Committee
- Referee for major journals, including Astrophysical Journal, Astronomical Journal, and MNRAS
- Participated on Time Allocation Committees or proposal reviews for NOAO, Gemini-CONICYT, and PATT (UK)

MAIN RESEARCH AREAS

- Massive star formation environments
- Protostellar jets and outflows
- Accretion, protoplanetary, and debris disks
- Supernova remnants
- Maser emission in star-forming regions
- Infrared Instrumentation

AWARDS & PRINCIPAL INVESTIGATOR GRANTS (since 2010)

NASA Program and Project Management Excellence Award	2024
NASA Group Achievement Award for SOFIA Project Closeout Team	2024
NASA Astrophysics Data Analysis Program Grant Award - $351,000	2023
USRA 2022 Manager Award	2022
Revealing the Embedded Structures and Sources within Giant HII Regions - $371,200 SOFIA Grant Cycles 1, 2, 3, 5, and 6	2013-2018
NASA Group Achievement Award for SOFIA First Deployment Flight Team	2015
NASA Group Achievement Award for SOFIA Initial Science Flight Team	2011
NASA Group Achievement Award for SOFIA First Light Flight Team	2010

Co-Investigator on almost $1m in awards for Hubble, Spitzer, and James Webb projects

CONFERENCE TALKS & COLLOQUIA

- Plenary Talk at the 235th AAS Meeting in 2020
- Invited Speaker at nine international conferences
- Session Chair at seven conferences
- Science Organizing Committee member at four conferences
- Workshop Organizer and Science Organizing Committee Chair for the “Workshop on Star Formation Across the Stellar Mass Spectrum” in La Serena, Chile in 2002
- 24 talks given at universities, institutes, laboratories, and observatories in last two decades

PUBLICATION SUMMARY

- 101 total research articles (34 first author)
- 68 refereed research articles (22 first author)
- Over 2300 total citations
- Over 24,000 publication downloads from ADS
- H-index of 29
- Coauthor and coeditor of two books