Dale C. Jackson, Ph.D.

Manager Weaponization Science R&D Sandia National Laboratories Email: dcjacks@sandia.gov Tel: (505) 844-6760

Education:

Education.		
Ph.D. Astrophysics, Department of Astronomy, University of Minnesota A Spitzer Space Telescope Survey of Nearby Dwarf Galaxies		2007
B.S. Astrophysics, Mathematics Minor, University of New Mexico		2001
Professional Experience:		
Manager, Weaponization Science R&D, Sandia National Laboratories	2019 -	Present
• Managed 19 Staff Members and \$10M/year R&D Portfolio		
Guided Sandia's Proliferation Detection Technology Roadmap		
 Advised Government Program Managers on National Remote Sensing Capabilities and Technology 		
 Member of Intergovernmental Working Group on Next Generation Proliferation Detection Systems 		
Principle Member of Technical Staff, Sandia National Laboratories	2014 -	2019
United States Nuclear Detonation Detection System		
Project Lead: Satellite Ground System Development		
• Project Lead: Satellite Anomaly Resolution and System Optimization Studies		
Principle Investigator for High Explosive Test Campaigns		
 Coordinated Program Development and Internal R&D Efforts 		
 Primary Technical Interface to U.S. Air Force Technical Applications Center Intergovernmental Assignment to U.S. Air Force Technical Applications Center 	er	
U.S. Air Force Technical Applications Center Patrick Air Force Base, FI	2012 -	2014
Intergovernmental Personnel Assignment	2012	2011
Transitioned R&D Program to Operations		
 Trained U.S. Air Force Officers and Civilians on Data Processing and Analysi 	c	
• Trained 0.5. All Force Officers and Crymans on Data Processing and Analysi	3	
Senior Member of Technical Staff, Sandia National Laboratories	2009 -	2012
GPS Block IIA and IIR Data Analysis and Exploitation		
Team Lead for Major Flight Software Modification Effort		
• Contributed to Anomaly Resolution and System Optimization Studies		
• PI: "Novel Geolocation Techniques Using Timing-Based Sensors"		

Limited-Term Technical Staff, Sandia National Laboratories GPS Block IIA and IIR Data Analysis and Exploitation	2007 - 2009
• Characterized Events of Interest and Assessed Satellite State-of-Health	
Developed Real-Time Background Source Database	
Wrote Data Processing and Data Visualization Software	
• Worked with Ground System Engineers to Resolve Data Processing Issues	
Research Assistant, University of Minnesota, Dept. of Astronomy	2003 - 2007
A Spitzer Space Telescope Survey of Nearby Dwarf Galaxies	
Performed Resolved Infrared Imaging of Nearby Dwarf Galaxies	
Investigated the Dust Formation/Destruction Processes in Metal-Poor	
Galaxies	
Wrote Successful Spitzer Space Telescope Observing Proposals	
 Developed Numerous Data Analysis and Visualization Tools 	
• Created a Data Analysis Pipeline for Automated Processing, Calibration,	
and Source Extraction of Space Telescope Imaging Data	
• Analyzed UV, Optical, and Infrared Imaging, and 21 cm Interferometry of	
Nearby Galaxies	
Research Assistant, University of New Mexico, Dept. of Astronomy	1998 – 2001
Searching for Companions to Late Type M Stars	
• Carried Out Optical Imaging Observations and Analysis of Late-Type M Stars	5
Discovered Extra-Solar Planet Using Doppler-shifted TiO measurement	
Discovered Extra Solar France Comg Dopplet childed file incasarement	
Honors:	
Secretary of Energy Achievement Award – GBD III Monitoring System Team	2018
New Mexico Scholars Scholarship, University of New Mexico	1996 - 2000