

Benjamin M. Rose

Physics Ph.D. Candidate at Notre Dame
OrcidID: 0000-0002-1873-8973

Department of Physics
225 Nieuwland Science Hall
Notre Dame, Indiana 46556

574.387.3453
brose3@nd.edu

Education	Master of Science in Physics University of Notre Dame, Notre Dame, Indiana Advisor: Professor Peter Garnavich	2016
	Bachelor of Science in Physics, <i>cum laude</i> Whitworth University, Spokane, Washington Minor: Mathematics	2012
Observational Experience	Vatican Advanced Technology Telescope (VATT) Mount Graham International Observatory, Safford, Arizona 4 nights	June 2014
Professional Societies	American Astronomical Society (AAS) , Junior Member	2014 - present
	American Physical Society (APS) , Student Member	2011 - 2014
Activities & Outreach	Graduate Physics Society (GPS) Annual Conference <i>Organizing committee member for a conference with over 60 attendees.</i>	2016
	Graduate Physics Society <i>Executive Board Member promoting the Society's goal of "fostering a community built on intellectual, professional, and social interactions."</i>	2015 - present
	Graduate Student Union (GSU) <i>I was the Physics Department representative and worked on issues of parking, health insurance, building remodels, and more.</i>	2013 - 2014
	Notre Dame Summer Band	2013 & 2014
	Whitworth University Wind Symphony	2009 - 2012
	Whitworth Near Space <i>I worked with middle school students on two high altitude balloon experiments, where we developed and built radiation, ozone, and temperature detector systems.</i>	Spring 2012
	Club Treasurer, Whitworth University	2009 - 2011
Awards	GSU Conference Presentation Grant , Notre Dame	2015 & 2016
	Notebaert Professional Development Award , Notre Dame	2015 & 2016
	Poster Grant , GSU 6th Annual Research Symposium	2014
	Presidential Scholarship , Whitworth University	2008 - 2012
	Delbert E. Friesen Memorial Scholarship , Whitworth University	2011 - 2012
	Talent Scholarship in Physics , Whitworth University	2008 - 2011
	Talent Scholarship in Music , Whitworth University	2009 - 2012
	Laureate Society , Whitworth University <i>For a semester GPA of 3.75 or greater</i>	4 semesters

Computer Skills	Daily Use:	Python, git, GitHub, Astropy, L ^A T _E X, Markdown, macOS
	Proficient:	Jupyter Notebook, pandas, Linux, Jekyll, HTML, CSS, Windows
	Basic Knowledge:	C++, Parallel Computing, Mathematica, MATLAB, Javascript
Teaching Experience	Individual Tutoring	Fall 2015 & 2016 <i>Sessions included topics in math methods, thermodynamics, and E & M.</i>
	Intro. to Scientific Computing with Python	Spring 2016 <i>Taught basic programing help session and graded assignments.</i>
	Engineering Intro. Physics labs	Spring & Fall 2013
	Pre-Med. Intro. Physics labs	Fall 2012 & Summer 2013
Oral Presentations	<i>Searching For a Cosmic-scale Dark Flow</i>	November 20, 2015
	2015 APS Prairie Section Meeting, Notre Dame	
	<i>Finding A Cosmic Bulk Flow</i>	April 28, 2014
	2014 GPS Spring Conference, Notre Dame	
	<i>Determining the Location of a Radioactive Source in MAJORANA</i> DEMONSTRATOR REU Culminating Talks, Duke University	August 2, 2011
Poster Presentations	<i>Correlations Between Hubble Residuals and Local Stellar Populations of Type Ia Supernovae</i>	January 7, 2017
	AAS 229th Meeting, Grapevine, Texas	
	<i>Correlating Type Ia Supernova Properties With Their Local Environment Using HST Snapshots of Host Galaxies</i>	January 6, 2016
	AAS 227th Meeting, Kissimmee, Florida	
	<i>Prospects for Detecting a Cosmic Bulk Flow</i>	January 6, 2015
	AAS 225th Meeting, Seattle, Washington	
Publications	<i>Finding A Cosmic Bulk Flow</i>	February 27, 2014
	GSU 6th Annual Research Symposium, Notre Dame	
	<i>Determining the Location of a Radioactive Source in MAJORANA</i> DEMONSTRATOR APS, Division of Nuclear Physics, Michigan State University	October 27, 2011
	[4] <i>Detectability of Cosmic Dark Flow in the Type Ia Supernova Redshift-Distance Relation</i> Mathews, G.J., Rose, B. M. , Garnavich, P., et al. 2016 ApJ 827 60	
	[3] <i>The New Eclipsing CV MASTER OTJ192328.22+612413.5: A Possible SW Sextantis Star</i> Kennedy, M. R., Callanan, P., Garnavich, P. M., et al. 2016, AJ, 152, 27	
	[2] <i>Constraints on the Birth of the Universe and Origin of Cosmic Dark Flow</i> Mathews, G. J., Gangopadhyay, M. R., Garnavich, P., Rose, B. M. , et al. 2015 Int. J. Mod. Phys. A, 30, 1545022	
Publications	[1] <i>High-Amplitude, Rapid Photometric Variation of the New Polar MASTER OT J1321</i> Littlefield, C., Garnavich, P., Magno, K., et al. 2015, Information Bulletin on Variable Stars, 6129, 1	