

## David M. Green

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CONTACT INFORMATION	Department of Physics University of Maryland College Park College Park, MD 20740	240-472-9766 damgreen@umd.edu
RESEARCH INTERESTS	Gamma-ray Astrophysics, High Energy Particle Physics, Detector Physics, Cosmic-Ray Propagation, Cosmic-Ray Origins	
EDUCATION	<b>University of Maryland College Park</b> , College Park, MD  Ph.D, Physics <ul style="list-style-type: none"><li>• Thesis Topic: <i>Cosmic-Ray Nuclei in the Fermi-LAT</i></li><li>• Advisors: Elizabeth Hays, Ph.D and Kara Hoffman, Ph.D</li></ul> M.S., Physics, Oct 2012 <ul style="list-style-type: none"><li>• Topic: <i>Measuring Charge of Cosmic-Ray Nuclei in the Fermi-LAT</i></li><li>• Advisor: Elizabeth Hays, Ph.D and Kara Hoffman, Ph.D</li></ul> <b>Indiana University Bloomington</b> , Bloomington, IN  B.S., Physics and B.S., Astronomy, May 2008 <ul style="list-style-type: none"><li>• <i>With Honors</i></li></ul>	
RESEARCH EXPERIENCE	<b>Research Assistant</b> Department of Physics University of Maryland College Park Supervisor: Elizabeth Hays, Ph.D  Monitoring and ground calibration of the Fermi-LAT ACD subsystem with Alex Moiseev Ph.D, Elizabeth Hays Ph.D, Theresa Brandt Ph.D, and Eric Charles Ph.D  Exploring reconstruction techniques and simulations for evaluating measurements of cosmic-ray nuclei properties with the Fermi-LAT with Elizabeth Hays Ph.D and Theresa Brandt Ph.D  <b>REU Participant - IU Astronomy Department</b> Department of Astronomy Photometric study of NGC 7789 Indiana University Bloomington Supervisor: Constantine Deliyannis, Ph.D  <b>Research Assistant</b> Department of Physics Short Range Gravity Experiment Indiana University Bloomington Supervisor: Josh Long, Ph.D	Feburary 2010 – Present          May 2007 – Aug 2007       Jan 2006 – Dec 2007
AWARDS	Student Awards — Indiana University Department of Astronomy <ul style="list-style-type: none"><li>• McCreery Award</li></ul> Student Awards — Indiana University Department of Physics <ul style="list-style-type: none"><li>• Gabriel Benman Memorial Award</li><li>• IU Faculty Award</li></ul>	Aug 2007  Apr 2007 Aug 2003
PRESENTATIONS	University of Maryland College Park <ul style="list-style-type: none"><li>• CRESST Retreat: Cosmic-Ray Nuclei in the Fermi LAT</li></ul>	Nov 2013

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TEACHING EXPERIENCE	PHYS 271 - General Physics (Laboratory)	Jan 2009 - May 2009
	Instructor: Arthur La Porta, Ph.D	
	Department of Physics	
	University of Maryland College Park	
	PHYS 260 - General Physics (Discussion)	Aug 2008 - Dec 2008
	Instructor: Wendell T. Hill, III, Ph.D	
	Department of Physics	
	University of Maryland College Park	
	Q201 - Physics for Elementary Education Majors (Laboratory)	Aug 2006 - May 2007
	Instructor: Catherine Olmer, Ph.D	
	Department of Physics	
	Indiana University Bloomington	
	P201 - General Physics I (Discussion)	Aug 2005 - May 2006
	Instructor: Harold Ogren, Ph.D	
	Department of Physics	
	Indiana University Bloomington	
SERVICE	Fermi-LAT Journal Club at Goddard Space Flight Center	November 2013 – Present
	• Selecting and reviewing high energy astrophysics papers	
	• Discuss selected papers among fellow high energy astrophysicist	
	GRAD MAP	July 2013 – Present
	• Improve the diversity of Physics and Astronomy graduate students	
	• Build ties and interactions with Mid-Atlantic Historically Black Colleges and Universities through seminars and workshops	
	GSFC Python Boot Camp 2013	June 2013
	• Bring students from zero to analyzing data with Python in three days	
	• Assist students with question of Python	
REFERENCES	Elizabeth A. Hays	
	Deputy Project Scientist for the Fermi Gamma-ray Space Telescope	
	Astroparticle Physics Laboratory	E-mail: elizabeth.a.hays@nasa.gov
	NASA Goddard Space Flight Center	Phone: 301-286-0345
	Theresa J. Brandt	
	Research Scientist	
	Astroparticle Physics Laboratory	E-mail: theresa.j.brandt@nasa.gov
	NASA Goddard Space Flight Center	Phone: 301-286-4430
	Kara Hoffman	
	Associate Professor	
	Department of Physics	E-mail: kara@icecube.umd.edu
	University of Maryland College Park	Phone: 301-405-7263
TECHINICAL SKILLS	Computers:	
	• C, C++, Python, ROOT, UNIX shell scripting, L <sup>A</sup> T <sub>E</sub> X, Gnuplot, Mathematica, MATLAB, and others	
	Lab:	
	• Monte Carlo Simulations, Data monitoring, optical telescope operation, vacuum systems and testing, soldering, and more	

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### SELECTED PUBLICATIONS

1. **David M. Green**, E. A. Hays, T. J. Brandt. (2014) *Cosmic-Ray Nuclei in the Fermi-LAT ACD*. Poster Presented at 223rd American Astronomical Society, Washington, DC.
2. **David M. Green**, E. A. Hays, T. J. Brandt. (2012) *Heavy Cosmic-Rays in the Fermi-LAT*. Poster Presented at 4th Fermi Symposium, Monterey, CA.
3. **David M. Green**, C. P. Deliyannis, J. Hughto, A. Simmons, A. Sarajedini, I. Platais. (2008) *UBVRI CCD Photometry of Open Cluster NGC 7789*. Poster Presented at 211th American Astronomical Society, Austin, TX.