

## 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: Dr. Elizabeth Hays and Dr. Kara Hoffman</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: Dr. Elizabeth Hays and Dr. Kara Hoffman</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>	
AWARDS	Student Awards — Indiana University Department of Astronomy	
	<ul style="list-style-type: none"><li>• McCreery Award</li></ul>	Aug 2007
	Student Awards — Indiana University Department of Physics	
	<ul style="list-style-type: none"><li>• Gabriel Benman Memorial Award</li></ul>	Apr 2007
	<ul style="list-style-type: none"><li>• IU Faculty Award</li></ul>	Aug 2003
RESEARCH EXPERIENCE	<b>Research Assistant</b> Department of Physics University of Maryland College Park Supervisor: Dr. Elizabeth Hays	February 2010 – Present
	Monitoring and ground calibration of the Fermi-LAT ACD subsystem with Dr. Alex Moiseev, Dr. Elizabeth Hays, Dr. Theresa J. Brandt, and Dr. Eric Charles	
	Exploring reconstruction techniques and simulations for measurements of cosmic-ray nuclei properties with the Fermi-LAT with Dr. Elizabeth Hays and Dr. Theresa Brandt	
	<b>REU Participant - IU Astronomy Department</b> Department of Astronomy Photometric study of NGC 7789 Indiana University Bloomington Supervisor: Dr. Constantine Deliyannis	May 2007 – Aug 2007
	<b>Research Assistant</b> Department of Physics Short Range Gravity Experiment Indiana University Bloomington Supervisor: Dr. Josh Long	Jan 2006 – Dec 2007

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### PRESENTATIONS AND 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** Talk: *Cosmic-Ray Nuclei in the Fermi-LAT*. CRESST Retreat, Nov 2013.
3. **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.
4. **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.

### TEACHING EXPERIENCE

PHYS 271 - General Physics (Laboratory)	Jan 2009 - May 2009
Instructor: Dr. Arthur La Porta Department of Physics University of Maryland College Park	
PHYS 260 - General Physics (Discussion)	Aug 2008 - Dec 2008
Instructor: Dr. Wendell T. Hill, III Department of Physics University of Maryland College Park	
Q201 - Physics for Elementary Education Majors (Laboratory)	Aug 2006 - May 2007
Instructor: Dr. Catherine Olmer Department of Physics Indiana University Bloomington	
P201 - General Physics I (Discussion)	Aug 2005 - May 2006
Instructor: Dr. Harold Ogren Department of Physics Indiana University Bloomington	

### TECHNICAL 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

### 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

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### REFERENCES

Elizabeth A. Hays

Deputy Project Scientist for the Fermi Gamma-ray Space Telescope

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