David M. Green

Contact Department of Physics

Information University of Maryland College Park 240-472-9766

College Park, MD 20740

RESEARCH Gamma-ray Astrophysics, High Energy Particle Physics, Detector Physics, Cosmic-Ray

Interests Propagation, Cosmic-Ray Origins

EDUCATION University of Maryland College Park, College Park, MD

Ph.D., Physics

• Thesis Topic: Cosmic-Ray Nuclei in the Fermi-LAT

• Advisors: Elizabeth Hays, Ph.D, Theresa Brandt, Ph.D, and Kara Hoffman, Ph.D

M.S., Physics, Oct 2012

• Topic: Measuring Charge of Cosmic-Ray Nuclei in the Fermi-LAT

• Advisor: Elizabeth Hays, Ph.D, Theresa Brandt, Ph.D, and Kara Hoffman, Ph.D

Indiana University Bloomington, Bloomington, IN

B.S., Physics and B.S., Astronomy, May 2008

• With Honors

RESEARCH EXPERIENCE

Research Assistant

Feburary 2010 - Present

damgreen@umd.edu

Department of Physics

University of Maryland College Park

Supervisor: Elizabeth Hays, Ph.D and Theresa Brandt, Ph.D

REU Participant - IU Astronomy Department May 2007 to Aug 2007

Department of Astronomy Photometric study of NGC 7789

Indiana University Bloomington Supervisor: Constantine Deliyannis, Ph.D

Research Assistant

Jan 2006 to Dec 2007

Department of Physics

Short Range Gravity Experiment Indiana University Bloomington Supervisor: Josh Long, Ph.D

Publications

- 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, Texas.

Awards

Student Awards — Indiana University Department of Astronomy

• McCreery Award Aug 2007

Student Awards — Indiana University Department of Physics

• Gabriel Benman Memorial Award Apr 2007

• IU Factually Award Aug 2003

Presentations University of Maryland College Park

• CRESST Retreat: Cosmic-Ray Nuclei in the Fermi LAT

Nov 2013

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 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

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

HARDWARE AND Computer Programming:

SOFTWARE SKILLS • C, C++, Python, ROOT, UNIX shell scripting, GNU, Mathematica, MATLAB, and others