

Matthew Klimuszka

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EDUCATION

- 2014 - 2015 **University of Nottingham** Nottingham, UK
Sustainable Energy Engineering M.Sc. expected 12/2015
Accredited by the Institution of Mechanical Engineers.
Achieved "Distinction" in taught classes. Thesis grade pending
- 2010 - 2014 **Franklin & Marshall College** Lancaster, PA
B.A. Physics Summa Cum Laude Cumulative GPA: 3.95

TEACHING AND WORK EXPERIENCE

- 2011 - 2014 **Franklin & Marshall College**
Teaching assistant for 100 level class Energy Issues; 300 level class Lead & Asthma; and introductory physics labs. Tutor for introductory physics classes.
- 2008 - 2012 **Wilkes-Barre General Hospital**
Supervisor: Bill Podskoch
Transported patients and materials throughout the hospital. Recognized in the WWHCS newsletter as employee of the month (from thousands of employees).

RESEARCH EXPERIENCE

- 2015 **Sasie Ltd. (M.Sc. Thesis Project)**
The Home of Renewable Energy in Nottingham
Supervisors: Jill Holland (Sasie), Arthur Williams (University of Nottingham)
- Created an Android app for sustainable technology reference guides and site surveys for solar panel installation.
- 2013 **Los Alamos National Laboratory**
Solid Earth Geophysics (EES - 17)
Mentor: Dr. Howard Patton
- Work featured in Dr. Howard Patton's presentation at the 2013 Fall meeting of the American Geophysical Union, "Testing Equivalent Elastodynamic Models for Explosion-Induced, Late-Time Rock Damage with Close-In Recordings of Rg Waves"
 - Used recorded and simulated seismic measurements from underground explosives testing to investigate the role of surface damage in location and yield estimates.
- 2012 **Franklin & Marshall College**
Physics Department
Supervisors: Professors Linda Fritz, Ken Krebs, and Ned Dixon
- Used a sol-gel based method to synthesize and spin coat titania thin films.
 - Paired the films with bornite nanoparticles synthesized in the chemistry department by Professor Kate Plass to make heterojunctions in an effort to create a photovoltaic device.

POSITIONS OF RESPONSIBILITY

2010-2015 **Quidditch**

Tournament Director, Team Founder, President, Captain, Coach

- During my four years at F&M, I established the club, created marketing materials, attended two world cups, and directed multiple tournaments.
- At Nottingham, I took control of the fledgling team, modernized equipment and procedures, and earned third at the 2015 European Quidditch Cup.

2013-2014 **F&M Faculty Committee on Academic Technology**

Student Representative

- Reviewed college policies relating to instructional technology including purchasing decisions and information security policies.

2012-2014 **Dump 'N' Run**

Chief Executive

- Organized a charity event to reduce items being sent to landfills by collecting used items from students and selling them in a flea market setting.
- Raised over \$1,100 each year for a local women's shelter.

AWARDS AND HONOR SOCIETIES

University of Nottingham

- USA Masters Scholarship
- FUN America Scholar

Franklin & Marshall College

- Michael Albert Lewis Memorial Prize in Physics
- John Kershner Scholar in Physics and Astronomy (three years)
- Frank Durrell Enck Memorial Prize in Physics
- Gray Scholar
- Marshall Scholar
- Howard and Mary Patton Geophysical Fellowship
- Phi Beta Kappa
- Sigma Pi Sigma (physics honor society)
- Junto Society (conversation society for college administrators and high achieving students)
- Black Pyramid Society (senior honor/leadership society for top twenty students)

ADDITIONAL INFORMATION

IT Skills	Experienced in Seismic Analysis Code, Wolfram Mathematica, UNIX, LabView, LaTeX, C++, Java, Android Studio, and various graphic design and office programs. Familiar with LTSpice, Python, Matlab, C-shell, SQL, and RETScreen.
Languages	English (native) and German (Three semesters, 4.0 GPA, not used since)
Misc. Associations	Zeta Beta Tau fraternity. After years of recolonization work at F&M, first Alpha Tau class in over 20 years