

EDUCATION:

Graduate Student, Department of Physics

University of California Santa Barbara, Santa Barbara, CA

Bachelor of Science (Honors, Double-Major: Physics, Political Science) May, 2007

Haverford College, Haverford, PA

Received Departmental Honors (Physics) and the Louis Green Prize in Physics (May 2007)

Course work in Physics, Political Science, Math, Russian and Philosophy

Received: Jonathan Mohrig Memorial Prize (May, 2005) for contributions to community

Elected: Co-Chair, Honor Council of Haverford College (adjudicates student misconduct)

Appointed: College Administrative Advisory (Finance) Committee

Co-President & Chief System Admin., FIG Student Computing Association

Technical Director, Haverford Student Political Network

High School Diploma (With Academic Honors)

June, 2003

Newton North High School, Newtonville, MA

Service Award, Aldermanic Scholarship for Interest in Government,

Russian Language Award, Spanish Language Award, Peer Mediation Award

WORK EXPERIENCE:

Research Assistant

**October, 2007 -
June 2008**

Surface Physics Laboratory, Autonomous University of Madrid (Spain)

Self-assembly of alkanethiol monolayers on Au (111) surfaces by AFM and SXRD

Research Assistant

**May 2006 -
August 2007**

Smith Research Group, Department of Physics, Haverford College

Photoconductivity of Self-Assembled Porphyrin Nanorods

Research Assistant

Summer 2005

Smith Research Group, Department of Physics, Haverford College

Single-Walled Carbon Nanotubes: Growth Techniques, High Voltage Behavior in
Ultra-High Vacuum (UHV), Applications in Atomic Force Microscopy (AFM)

Student Assistant / Grader

Spring 2005

Department of Physics, Haverford College

Residential Computing Consultant / Dorm-Net Operations

**October, 2003 -
May 2007**

Academic Computing Center, Haverford College

- Answered helpdesk telephone
- Set up computers for college network
- Troubleshooted for MacOS, Windows 95,98,ME,XP
- Network Troubleshooting
- Multimedia Web Design

PAPERS AND CONFERENCE PRESENTATIONS:

Yeats, A.L.; Schwab, A.D.; Massare, B.; Johnston, D.E.; Johnson, A.T.; de Paula, J.C.; Smith, W.F. *J. Phys. Chem. C* **2008** 10.1021/jp0765695.

“Photoconductivity of Nanotapes Self-assembled from meso-Tri(4-sulfonatophenyl) monophenylporphine” *March Meeting of the American Physical Society*, Session U26, Denver, CO, March 8th, **2007**. [<http://meetings.aps.org/Meeting/MAR07/Event/61917>]

SKILLS:

Computers: Windows98/XP, MacOS 9/X, LabVIEW, Origin, Mathematica, Word, Excel, Outlook, PowerPoint, Access, Illustrator, Photoshop, HTML, MySQL, PHP, C, TCP/IP, UNIX/Linux Administration/Security

Laboratory: Atomic Force Microscopy (Digital Instruments Multimode & Bioscope), Computer interfacing using LabVIEW, Low-noise current-voltage characterization, Ultra-High Vacuum apparatus (UHV), UV/Vis/NIR absorbance spectroscopy, Fluorescence spectroscopy, Nuclear Magnetic Resonance (NMR) spectroscopy, Basic digital and analog circuit design.

Languages: Native speaker of English. Proficient in Spanish and Russian

Other Skills: Trained in Mediation / Conflict Resolution, Licensed Amateur Radio Operator (AB1CX)

Academic and Professional References Available Upon Request!