

Eva H. Smith

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Education

Cornell University, Ithaca, NY

Doctor of Philosophy, Materials Science and Engineering, minor in Chemistry

anticipated May 2017

Master of Science, Materials Science and Engineering, minor in Chemistry

August 2013

National Science Foundation Graduate Research Fellow 2010-2013; GPA: 3.9/4.0

Scripps College, Claremont, CA

Bachelor of Arts, Mathematics; **Bachelor of Arts**, Chemistry

May 2009

James E. Scripps Scholar 2005-2009; GPA: 3.9/4.0

Technical Skills

- Experienced with MATLAB, Mathematica, LaTeX, the Vienna Ab initio Simulation Package (VASP)
- Moderately experienced with Python, Bash, Wannier90, X-ray photoelectron spectroscopy (XPS), X-ray diffraction (XRD), molecular beam epitaxy (MBE), wet chemistry methods, vacuum deposition methods
- Familiar with Quantum Espresso, scanning electron microscopy (SEM), nuclear magnetic resonance (NMR) spectroscopy, the Stuttgart Tight Binding-Linear Muffin Tin Orbital (TB-LMTO) program

Select Publications

- Smith, E. H., et al. “Maximizing anomalies in the thermal conductivity of ferroelectric perovskites.” *Manuscript in preparation*.
- Smith, E. H., et al. “Anisotropic thermal conductivity of PbTiO₃ grown by continuous codeposition.” *Manuscript in preparation*.
- Smith, E. H., Benedek, N. A. and Fennie, C. J. “Interplay of Octahedral Rotations and Lone Pair Ferroelectricity in CsPbF₃.” *Journal of Inorganic Chemistry*. **2015**, 54 (17), 8536–8543.

Selected Leadership and Team Experiences

Vice President, President, and Secretary, Graduate Women in Science, Alpha Chapter. Ithaca, NY 2010-2013

- Increased membership from 2 to 30 through networking, outreach events, and publicity efforts
- Oversaw the planning and production of professional development and outreach events, including a fellowship application session, science “cabaret,” and afternoon of hands-on science activities for young children
- Led fellowship application sessions in which 10 volunteers gave guidance and feedback to 40 students
- Recruited volunteers for fellowship application session, reserved meeting space, and organized advertising efforts

Meeting Co-Chair, Graduate Women in Science National Conference and Symposium, Ithaca, NY 2011

- Worked closely with co-chair to make decisions regarding conference scope, content, and speakers; delegation of tasks to subcommittees; planning timeline; and oversight of conference organization
- Attracted 60 women and men nationally to attend conference occupying 2 full days
- Monitored adherence to planning timeline and worked with subcommittee chairs to address sources of delays
- Networked with Cornell resources, other academic institutions, industry, and local government to recruit 25 relevant, diverse speakers to serve on panels, give talks, and lead workshops