

Stephanie Lin

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EDUCATION AND HONORS

Doctorate Candidate for Material Science and Engineering

Georgia Institute of Technology
Paper Science and Engineering Fellow

Masters of Material Science and Engineering

Georgia Institute of Technology
Thesis "Characterization of Metal Foams" Graduation: Dec 2010

Bachelors of Material Science and Engineering

Georgia Institute of Technology Graduation: Dec 2008
Dean's List

QUALIFICATIONS

6 years of research experience including **Software Skills:** Matlab, Simulink, Labview, Solidedge, AutoCAD, Visual Basic, ImageJ, Fiji **Characterization Techniques:** Scanning Electron Microscopy, Optical Microscopy, X-ray Diffraction, Image Processing, Differential Scanning Calorimetry
Mechanical testing methods: Dynamic Mechanical Analysis, Impact testing, Tensile testing, Compressive loading testing, Fatigue testing

RESEARCH EXPERIENCE

Shofner Lab (1/2011- present): Graduate Research Assistant

- Studying the crystallization kinetics of nanocomposites
- Developing methods of characterizing and quantifying dispersion in nanocomposites
- Mentoring undergraduates: Amanda Lofton, Jessica Sergeant

Georgia Tech Research Institute, Atlanta, GA (1/2009- 12/2010): Graduate Research Assistant

- Design and develop novel processing techniques for architected multifunctional materials
- Developed method of characterizing and visualizing of fluid flow through multifunctional materials
- Developed several different electroless metal plating techniques for multifunctional materials systems with complex systems
- Mentored undergraduates: Jason Kuple

ALCOA, Davenport, IA (5/2008- 8/2008): Engineering Intern

- Improved processing parameters for the aging of 2XXX and 6XXX series Aluminum
- Oversaw and improved quality control practices

Center for Assistive Technology and Environmental Access, Atlanta, GA (5/2005- 8/2007): Research Assistant

- Analyzed and established methods to ensure reliability and repeatability of sensor calibrations.
- Designed, built, and maintained equipment used in pressure wheelchair seating test and the tilt-in-space mechanism for wheelchairs

PUBLICATIONS

1. Kuple, J., **Lin, S.**, Nadler, J. (2011) "Digital Construction and Characterization of Reticulated Porous Microstructures from Sacrificial Templates" *Conference Proceedings for 2011 TMS Annual Meeting, San Diego, CA. Feb 27-March 3 2011*
2. **Lin, S.**, Kuple, J., Nadler, J. (2010) "Structural and Permeability Characterization of Micron-scaled Reticulated Copper Foams" *Conference Proceedings for MRS Fall Meeting 2010, Boston, MA. Nov 27-Dec 2 2010*
3. **Lin, S.**, Nadler, J. (2009) "Parametric Studies on the Processing Parameters of a Thermally Wicking Material using Image Analysis" *Conference Proceedings for MRS Spring Meeting 2009 San Francisco, CA. April 13-17 2009*