Keith R. Morrison

Contact info

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Objective To obtain a Ph.D. In Materials Science & Engineering

Education

Ph.D., Materials Science & Engineering, Purdue University, Expected Graduation: ~2015

Research on Shape Memory NiAl alloys Advisor: Professor Alejandro Strachan

B.S., Materials Science & Engineering, Purdue University, 2011

Cumulative GPA: 3.62 / 4.0

Purdue University

Senior Design Project with Corning Inc.

Fall 2010 – Spring 2011

Industry sponsored, year-long project on the stability of thermoelectric oxides for high temperature applications.

Work/Research Experience

Summer Undergraduate Research Fellowship (SURF), Purdue University

Summer 2010

Worked as a summer intern, funded through NSF, on microstructural analysis and mechanical testing of two directionally solidified ternary eutectic alloys. Prepared and submitted a Research Summary and participated in a poster presentation at the end of the program.

Double Walled Carbon Nanotubes

Spring 2010

Studied the forces between the core and outer shell as different structures of varying lengths were tested using molecular dynamics simulations.

Superelasticity of Silicon Nanotubes

Spring 2009, Fall 2009

Investigated the mechanical response of various structures of Silicon nanotubes under large deformations using molecular dynamics simulations.

Skills

Computer: Microsoft Office, Matlab, Mathcad, some C++/Java/Fortran, VMD

Technical: X-ray Diffraction, Scanning Electron Microscopy, Optical Microscopy, Mechanical Testing

Additional: Conversational in Spanish

Honors/Awards/Scholarships

Dean's List
Fall 2008 - Present

• Matthew M. Slone Academic Excellence Award (\$2000) 2010

• Alcoa Scholarship (\$1000) 2009

• Freshman Honors Engineering Program Fall 2007 - Spring 2008