

Craig Hamel

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Personal Information

Full Name: Craig Michael Hamel

Date of Birth: February, 1990

Place of Birth: New Jersey, USA

Citizenship: USA

Education

2016 – Present Georgia Institute of Technology Pursuing PhD in Mechanical Engineering
PSE Fellow
Thesis Title: TBA

2013 – 2015 New Jersey Institute of Technology M.S. Mechanical Engineering
Thesis Title: *Development of a Finite Element Method for Light Activated Polymers*

Defended my thesis for a M.S. in mechanical engineering in 2015 under the supervision of Professor Shawn A. Chester. My research focused on continuum level simulations of light activated polymers, with applications to light activated shape memory polymers in particular.

2008-2012 University of Mississippi B.S. Physics

Graduated with a B.S. in physics with a minor in mathematics in 2012.

Research Interests

- Coupling of Chemistry and Large Deformation Mechanics
- Computational mechanics
- Multiphysics behavior of materials
- Modelling of smart and active materials

Honors and Awards

- Awarded \$500.0 in financial assistance to attend the *Society of Engineering Science 2015 Annual Technical Conference*, College Station, TX USA.
- Awarded third place in the Student Poster Competition at the *Society of Engineering Science 2015 Annual Technical Conference*, College Station, TX USA.

Publications

Craig M. Hamel, Fangda Cui, and Shawn A. Chester, 2016. A Finite Element Method for Light Activated Shape-Memory Polymers. *International Journal of Numerical Methods in Engineering*.

Conferences and Seminars

Lead Author / Presenter

Craig Hamel and Shawn A. Chester, 2015. Modeling Light Active Shape Memory Polymers. *Society of Engineering Science 2015 Annual Technical Conference*, College Station, TX USA.

Professional Activities

Tau Beta Pi - The Engineering Honor Society - Member since 2015

Leadership positions held as an undergraduate:

- Society of Physics Students - Treasurer for the University of Mississippi chapter(2010-2011)

Computer Skills

Technical Software

Fortran, Abaqus (user subroutines), Matlab, C++, python, Mathematica, Linux, and L^AT_EX.

References

Available upon request.