

Kasey L. Hanson

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EDUCATION

Ph.D. Student in Materials Science and Engineering Aug. 2014 – Present
Georgia Institute of Technology, Atlanta, GA

B.S. in Ceramic Engineering, *Cum Laude* May 2014
Alfred University, Alfred, NY

GRADUATE RESEARCH

Graduate Research Assistant, Georgia Institute of Technology, Atlanta, GA Aug. 2015 – Present
Advisor: Preet Singh
Project: Corrosion Control in Superheaters to Increase Kraft Recovery Boiler Efficiency

UNDERGRADUATE RESEARCH

Undergraduate Research Assistant, Alfred University, Alfred, NY Feb. 2013 – May 2014

NSF MRSEC REU Fellow, University of Pennsylvania, Philadelphia, PA June 2013 – Aug. 2013

NSF MRSEC REU Fellow, New York University, New York, NY June 2012 – Aug. 2012

Undergraduate Research Assistant, Alfred University, Alfred, NY Jan. 2011 – May 2012

Summer Research Intern, City of Hope, Duarte, CA May 2011 – Aug. 2011

Volunteer, Natural History Museum of Los Angeles County, Los Angeles, CA June 2011 – Aug. 2011

PUBLICATIONS

1. J. Palacci, A. Abramian, S. Sacanna, J. Barrel, **K. Hanson**, A. Y. Grosberg, D. J. Pine, and P. M. Chaikin, "Artificial Rheotaxis", *Science Advances*, 1, 2015.
2. T. Still, P. J. Yunker, **K. Hanson**, Z. S. Davidson, M. A. Lohr, K. B. Aptowicz, A. G. Yodh, "Temperature-Sensitive Hydrogel-Particle Membrane From Evaporating Drops", *Advanced Material Interfaces*, 2015.
3. J. Clark, K. Lamparska, **K. Hanson**, V. Bidell, R. Ehrman-Dupree, T. G. Wilson, S. S. Smith, "Frangiome Mapping Detects an Excess of Non-B Structure Potential at DNA Breakpoints in Prostate Cancer Cells", UNDER REVIEW.

PRESENTATIONS

1. **K. Hanson**, "Doping Limits in Pyrochlore as a Ceramic Waste Form." Materials Science and Technology Conference. Oct. 2013. Montreal, Québec Canada. POSTER.
2. **K. Hanson**, "PNIPAM Hydrogel Membranes." University of Pennsylvania Summer Student Talks. Aug. 2013. Philadelphia, PA. ORAL (10 min).
3. **K. Hanson**, "Light Activated Particles in Confined Environments." 8th Gotham-Metro Condensed Matter Meeting. Nov. 2012. New York, NY. POSTER.
4. **K. Hanson**, "Light Activated Particles in Confined Environments." New York University Summer Student Poster Conference. Aug. 2012. New York, NY. POSTER and ORAL (15 min).
5. **K. Hanson**, "Local Hypersensitivity of Human Genomic DNA to Bisulfite Fragmentation." City of Hope Summer Poster Symposium. Aug. 2011. Duarte, CA. POSTER.