

Jason Rock

Computer Vision

Siebel Center
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Education

- 2012- **PhD, Computer Science**, *The University of Illinois*, Urbana-Champaign, Computer Vision Advisors: Derek Hoiem and David Forsyth.
- 2008-2012 **BS, Computer Science**, *Rensselaer Polytechnic Institute*, Troy NY, Magna Cum Laude.

Publications

- 2013 K. Karsch, Z. Liao, J. Rock, J. Barron, and D. Hoiem. Boundary cues for 3D object shape recovery. *CVPR 2013*
Z. Liao, J. Rock, and D. Forsyth. Non-parametric filtering for geometric detail extraction and material representation. *CVPR 2013*

Experience

Academic

- 2012- *Research Assistant* **University of Illinois** Urbana, IL
- 2010-2012 *Undergraduate Researcher* **RPI** Troy, NY
Implementation of classification by seafloor type using texture models.
Proposed a new method for correcting color variations caused by inconsistent lighting in underwater images. Currently in use for HABCAM images.
- Summer 2011 *Guest Student (HABCAM)* **Woods Hole Oceanographic Institute** Woods Hole, MA
Computer vision research with a focus on illumination correction and substrate identification.

Outreach

- 2013- *Mentor* **Illinois Mathematics and Science Academy** Student Inquiry and Research
<https://www.imsa.edu/academics/inquiry>
Advising gifted high school students performing research in computer vision and graphics.

Industry

- Summer 2013 *Software Engineering Intern (Streetview)* **Google** Mountainview CA
Visually ranking geotagged panoramas using object recognition for Google Maps.
- Summer 2012 *Serverside Quality Assurance Engineering* **Palantir** Palo Alto CA
Created a distributed scripting framework for automation of multi-user testing.
- Summer 2010 *Engineering Intern (Data Center Build Team)* **Cisco Systems** San Jose, CA
Significantly reduced build time for a large non-recursive make system through caching.
Added support for static analysis of disjoint makefile parts.

Technical Skills

Proficient: GNU/Linux, C++, Matlab, Java, Python

Experience: Perl, VXL, CMake

■ Honors, Leadership, and Service

- 2013- Computer Science Graduate Student Organization, Secretary
- 2012- PhD Ambassador and Mentor
- 2011-2012 RPI Upsilon Pi Epsilon Public Relations Chair
- 2006-2012 Varsity Diving (Captain 2011-2012)
- 2011 Undergraduate Research Symposium Honorable Mention for Illumination work