

Daniel E. Crispell

CONTACT INFORMATION	184 Hope St. Engineering Box D Brown University Providence, RI 02912 USA	<i>email:</i> daniel_crispell@brown.edu <i>www:</i> http://www.lems.brown.edu/~dec
RESEARCH INTERESTS	Computer vision: Vision for GIS, image and video-based modeling, image-based rendering, 3-D tracking and registration, automatic camera calibration, visual sensor networks	
EDUCATION	Brown University , Providence, Rhode Island USA Ph.D., Engineering, October 2009 • Advisor: Dr. Gabriel Taubin M.S., Engineering, May 2005 Northeastern University , Boston, Massachusetts USA B.S., Computer Engineering (minor, Computer Science), June 2003	
HONORS AND AWARDS	Brown University: Graduate Fellowship, 2003 Northeastern University: graduated Summa Cum Laude, University Honors Program, Dean's Scholarship	
PUBLICATIONS	Daniel Crispell, Joseph Mundy, and Gabriel Taubin Parallax-Free Aerial Video Registration British Machine Vision Conference (BMVC), 2008. Douglas Lanman, Daniel Crispell, and Gabriel Taubin Surround Structured Lighting for Full Object Scanning International Conference on 3-D Digital Imaging and Modeling (3DIM), 2007. Daniel Crispell, Douglas Lanman, Peter G. Sibley, Yong Zhao, and Gabriel Taubin Beyond Silhouettes: Surface Reconstruction using Multi-Flash Photography Symposium on 3D Data Processing, Visualization and Transmission (3DPTV), 2006. Douglas Lanman, Daniel Crispell, Megan Wachs, and Gabriel Taubin Spherical Catadioptric Arrays: Construction, Multi-View Geometry, and Calibration Symposium on 3D Data Processing, Visualization and Transmission (3DPTV), 2006. Mert Akdere, Ugur Cetintemel, Daniel Crispell, John Jannotti, Jie Mao, and Gabriel Taubin Data-Centric Visual Sensor Networks for 3D Sensing (Short Paper) 2nd International Conference on Geosensor Networks (GSN), 2006. Daniel Crispell, Gabriel Taubin, and John Jannotti Image-Based Routing for Image-Based Rendering Wkshp. on Omnidirectional Vision, Camera Networks and Non-classical cameras (OMNIVIS), 2005.	
PEER-REVIEWED POSTERS AND PRESENTATIONS	Douglas Lanman, Peter G. Sibley, Daniel Crispell, Yong Zhao, and Gabriel Taubin Multi-Flash 3D Photography: Capturing Shape and Appearance SIGGRAPH 2006 Poster	

Megan Wachs, Daniel Crispell, and Gabriel Taubin
Calibrating a Catadioptric Light Field Array
SIGGRAPH 2005 Poster

ACADEMIC
EXPERIENCE

Brown University, Providence, Rhode Island USA

Teaching Assistant: Electrical Circuits and Signals

Spring, 2004,2005

Teaching Assistant for undergraduate Circuits and Signals class. Ran recitation sections and labs, graded lab reports, held office hours.

Teaching Assistant: Linear Systems

Fall, 2005,2006,2007

Teaching Assistant for undergraduate Linear Systems class. Held Lectures when Professor was away, ran recitation sections, graded lab reports, held office hours.

PROFESSIONAL
EXPERIENCE

T.J. Watson Research Center, IBM, Yorktown Heights, NY

Research Intern

Summer 2004

Examined selected components of a speech recognition system and developed an initial proposal for hardware implementation. Also experimented with mouth localization techniques in a visual speech/silence detection system.

Endovia Medical (formerly Brock Rogers Surgical), Norwood MA

Co-op Intern

Winter Spring 2002

Developed a GUI for a robotic surgery device, including a message passing API for communication between user interface and system. Also worked closely with system design engineers testing and debugging system.

Biological Knowledge Lab at Northeastern University, Boston, MA

Undergraduate Researcher

Summer 2001 Spring 2003

Worked closely with a small research group developing a system for scientific diagram vectorization and parsing. Worked on both algorithm development and visualization techniques.

EMC Corporation, Hopkinton, MA

Co-op Intern

Winter 2000 - Spring 2001

Developed and set up a build environment for a test suite (using make and C) for a new feature, Developed a sockets based client/server system for gathering test data from remote locations. Developed and ran programs and scripts to test new software. Was responsible for writing test code (in C) as well as debugging existing code. Also made sure that all test hosts had latest software installed and were running as expected.

SERVICE

Volunteer Work: Participated in Rhode Island Mentoring Partnership program, 2007-2008 and 2008-2009 academic years, Maintained website for Pawtuxet Baptist Church, 2009.

Conference Submission Reviewing: IEEE Computer Vision and Pattern Recognition (CVPR) 2005, 2006, IEEE International Conference on Computer Vision (ICCV) 2005, 2009

REFERENCES

References available upon request.