

Andrew Owens

CONTACT INFORMATION

Website: <http://andrewowens.com>

EDUCATION

Massachusetts Institute of Technology, Cambridge, MA February 2013 - September 2016
Ph.D., Computer Science

Advisors: William Freeman and Antonio Torralba

Massachusetts Institute of Technology, Cambridge, MA July 2010 - January 2013
M.S., Computer Science

Advisors: William Freeman and Antonio Torralba

Cornell University, Ithaca, NY August 2006 - May 2010
B.A., Computer Science

Advisor: Daniel Huttenlocher

EXPERIENCE

U.C. Berkeley, Berkeley, CA September 2017 - present
Postdoctoral scholar

Advisors: Alexei Efros and Jitendra Malik

Microsoft Research, Redmond, WA June 2014 - September 2014
Research Intern

Advisor: Rick Szeliski

Google, Seattle, WA May 2011 - August 2011
Software Engineering Research Intern

Advisor: Sameer Agarwal

HONORS

Best Paper Award, Honorable Mention. CVPR 2011.

Best Reviewer Award, ICLR 2018.

Microsoft Research Fellowship, 2015

NDSEG Fellowship, 2011 - 2014

NSF Graduate Research Fellowship, 2012 (declined)

PUBLICATIONS

Audio-Visual Scene Analysis with Self-Supervised Multisensory Features.

Andrew Owens, Alexei A. Efros.

ECCV, 2018. Oral presentation.

Fighting Fake News: Image Splice Detection via Learned Self-Consistency.

Minyoung Huh, Andrew Liu, Andrew Owens, Alexei A. Efros

ECCV, 2018.

More Than a Feeling: Learning to Grasp and Regrasp using Vision and Touch

Roberto Calandra, Andrew Owens, Dinesh Jayaraman, Justin Lin, Wenzhen Yuan, Jitendra Malik, Edward H. Adelson, Sergey Levine

RA-L / IROS, 2018.

Learning Sight from Sound: Ambient Sound Provides Supervision for Visual Learning.

Andrew Owens, Jiajun Wu, Josh McDermott, William Freeman, Antonio Torralba

IJCV 2018.

The Feeling of Success: Does Touch Sensing Help Predict Grasp Outcomes?.

Roberto Calandra, Andrew Owens, Manu Upadhyaya, Wenzhen Yuan, Justin Lin, Edward H. Adelson, Sergey Levine.
CoRL 2017.

Shape-independent Hardness Estimation Using Deep Learning and a GelSight Tactile Sensor.
Wenzhen Yuan, Chenzhuo Zhu, Andrew Owens, Mandayam Srinivasan, Edward Adelson.
ICRA 2017.

Ambient Sound Provides Supervision for Visual Learning.
Andrew Owens, Jiajun Wu, Josh McDermott, William Freeman, Antonio Torralba
ECCV 2016. Oral presentation.

Visually Indicated Sounds.
Andrew Owens, Phillip Isola, Josh McDermott, Antonio Torralba, Edward Adelson, William Freeman
CVPR 2016. Oral presentation.

Multi-frame Stereo Matching with Edges, Planes, and Superpixels.
Tianfan Xue, Andrew Owens, Rick Szeliski, Daniel Scharstein, Michael Goesele.
In submission.

Camouflaging an Object from Many Viewpoints.
Andrew Owens, Connelly Barnes, Alex Flint, Hanumant Singh, William Freeman.
CVPR 2014. Oral presentation.

SfM with MRFs: Discrete-Continuous Optimization for Large-Scale Structure from Motion.
David Crandall, Andrew Owens, Noah Snavely, Daniel Huttenlocher.
PAMI 2013.

Shape Anchors for Data-Driven Multi-view Reconstruction.
Andrew Owens, Jianxiong Xiao, Antonio Torralba, William Freeman.
ICCV 2013.

SUN3D: A Database of Big Spaces Reconstructed using SfM and Object Labels.
Jianxiong Xiao, Andrew Owens, Antonio Torralba.
ICCV 2013.

Discrete-Continuous Optimization for Large-Scale Structure from Motion.
David Crandall, Andrew Owens, Noah Snavely, Daniel Huttenlocher.
CVPR 2011. Oral presentation. [Best Paper Award](#), [Honorable Mention](#).

PRESS COVERAGE

MIT researchers built an AI that predicts what the world sounds like. Quartz, 2016.
MIT Develops a Novel Camouflaging Algorithm That Hides Eyesores. Wired, 2014.
The Future of Camouflage. Boston Globe, 2014.