

Achal Dave

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Education

Carnegie Mellon University, Robotics Institute 2015 – Present
Doctor of Philosophy

University of California, Berkeley 2011 – 2015
Bachelor of Science, Electrical Engineering and Computer Science

Publications and Patents

Achal Dave, Olga Russakovsky, Deva Ramanan. Predictive Corrective Networks for Action Detection. In submission at Computer Vision and Pattern Recognition (CVPR) 2017.

Ben Zhang, Yu-Hsiang Chen, Claire Tuna, **Achal Dave**, Yang Li, Edward Lee, and Björn Hartmann. 2014. HOBS: head orientation-based selection in physical spaces. In *Proceedings of the 2nd ACM symposium on Spatial user interaction (SUI '14)*.

Submitted patent on audio-visual work at Google Research (2015).

Experience

Research Assistant, Carnegie Mellon University Fall 2015 – Present
Working with Professor Deva Ramanan. Currently focusing on temporal models for video tasks, particularly for action detection.

CS164 Teaching Assistant, UC Berkeley Spring 2015
Head Teaching Assistant for CS 164 (Compilers) course.

Intern, Google Research Summer 2015
Continued work from Berkeley on audio-visual consistencies. Submitted a patent on this work through Google, currently pending.

Research Assistant, UC Berkeley 2014 – 2015
Project on unsupervised mining of audio-visual consistencies from online videos. Worked with Professor Alexei Efros and Stella Yu.

Intern, Google Research Summer 2014
Trained deep models for real-time skeleton tracking on videos.

Research Assistant, UC Berkeley 2013 - 2014

Controlling real world devices using Google Glass. Worked with Professor Bjoern Hartmann. Helped submit, present and demonstrate our work at ACM Symposium on Spatial User Interfaces.

Intern, Flutter

Summer 2013

Worked on rotational invariance of gesture detectors; skeleton tracking from ceiling-planted camera.

Honors and Awards

Presidential Scholar, Carnegie Mellon University

2015 – Present

Regents and Chancellors' Scholar, University of California, Berkeley

2011-2015

Professional Engineers in California Government Scholarship

Activities

Robotics Graduate Student Organization Head

2016 – Present