

Harold Cooper

Cambridge, MA harold@mit.edu <http://mit.edu/harold>

Education

Massachusetts Institute of Technology
M.Eng. Electrical Engineering and Computer Science June 2009
B.S. Computer Science February 2008
B.S. Mathematics February 2008

Boulder High School June 2003
Valedictorian Boulder, CO

Experience

Eversplosion, Inc. January 2009 - Present
UI and video research. Cambridge, MA

MIT Computer Science Department January 2008 - May 2009
Teaching assistant for 6.005, the required software design course.

MIT AI Lab February 2006 - May 2009
Within Patrick Winston's *Genesis* group, ongoing AI research at the intersection of language and vision.

Dalian University of Technology May - July 2005
Set up China's first *iLabs* remote laboratory and taught university courses in microelectronics and Java. Dalian, China

MIT Media Lab January - December 2004
Within Marvin Minsky's *Commonsense Computing* group, created an intelligent, searchable database of shapes.

Institute for Arctic and Alpine Research June 2001 - December 2002
Fluid dynamics modeling of sediment flow. Boulder, CO

Publications

Pending patent for novel video UI.

Contributed text and diagrams to:
Grinspoon, David. *Lonely Planets: The Natural Philosophy of Alien Life*. New York: HarperCollins, 2003.

Personal Projects

Guitarist in rock band FORTRAN <http://myspace.com/123fortran>
Persistent Java Collections <http://pcollections.googlecode.com>
Programmable audio effects pedal, numerical Python packages, rigid linkage simulation

Qualifications

Selected Languages and Technologies:
Chinese, Python, Java, C(++), AVR, L^AT_EX, OpenGL, Haskell, Scheme, AJAX, SQL, PHP

Selected coursework:

Computability	Completeness	Algebraic topology
Nonlinear dynamics	Distributed systems	Machine learning
Artificial intelligence	Software engineering	Natural language processing
Bayesian learning	Microcontrollers	Complex analysis