

# Trevor Standley

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## Education

### ♦ University of California, Los Angeles

M.S. in Computer Science (June 2010)—3.82 GPA. Department's *Outstanding Master's Graduate*  
Thesis title: Optimal and Anytime Approximation Algorithms for Cooperative Pathfinding Problems

### ♦ University of California, Berkeley

B.S. in Electrical Engineering and Computer Science (May 2008)—3.73 GPA. With Honors

## Employment History

*Software Engineer*—Google Inc., 2010-Present.

- ♦ Google Signals (Hierarchical classification of text). Manager: Mark Chavira
- ♦ Google Display Network Reserve (Real-time auction bidding). Manager: Troy Walker

*Graduate Student Researcher*—Heuristic Search Group, UCLA, Spring 2010. Advisor: Richard E. Korf

*Graduate Student Researcher*—Automated Reasoning Group, UCLA, Winter 2009. Advisor: Adnan Darwiche

*Teaching Assistant*—Computer Graphics (CS 184), UC Berkeley, Spring 2008. Professor: James O'Brien

## Selected Publications

- ♦ Trevor Standley. **Finding Optimal Solutions to Cooperative Pathfinding Problems**. In *AAAI*, pages 173-178, 2010.
- ♦ Trevor Standley and Richard Korf. **Complete Algorithms for Cooperative Pathfinding Problems**. In *IJCAI*, 2011.
- ♦ Arthur Choi, Trevor Standley and Adnan Darwiche. **Approximating Weighted Max-SAT Problems by Compensating for Relaxations**. In *CP*, pages 211-225, 2009.

## Skills and Experience

### Software Engineering

- ♦ C++ programming (12 years)
- ♦ C++ Standard Template Library
- ♦ Java, C, and Python programming
- ♦ OpenGL and computer graphics
- ♦ Code optimization techniques
  - GPGPU programming with CUDA
  - SIMD and low level programming

### Leadership, Awards, and Projects

- ♦ Awarded \$512 in the UCLA CS department's *So You Think You Can Present* contest for 2010
- ♦ Led the winning team in Berkeley's Pac-Man AI contest 2007
- ♦ Led Moorpark College's team in the 2005 ACM Programming Contest, winning \$900
- ♦ Scholastic clubs and organizations (selected):
  - Officer of Berkeley's national engineering honor society, Tau Beta Pi, 2007
  - Co-founder and vice president of the Moorpark College Engineering Club, 2005
  - Vice president of the Agoura High School Physics club, 2000-2003
- ♦ Please see my website for a selection of talks, class projects, hobby projects, and full publications

### Extensive Working Knowledge

- ♦ Artificial intelligence
  - Heuristic search techniques
  - Machine learning
  - Neural networks
  - Bayesian networks
- ♦ Computer science theory
- ♦ Physics-based animation

### Relevant Courses

- ♦ University of California, Los Angeles:
  - CS 131 - Programming Languages
  - CS 261 - Heuristic Search
  - CS 263A - Natural Language Processing
  - CS 264 - Automated Reasoning
  - CS 262 - Reasoning with Partial Beliefs
  - CS 260 - Machine Learning Theory
- ♦ University of California, Berkeley:
  - CS 161 - Security & Cryptography
  - CS 162 - Operating Systems
  - CS 174 - Randomized Algorithms
  - CS 184 - Computer Graphics
  - CS 188 - Artificial Intelligence
  - CS 270 - Advanced Algorithms
  - CS 278 - Graduate Complexity Theory