

**SANDY HUANG**  
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Present Address: P.O. Box 15628, Stanford, CA 94309

Permanent Address: 2618 Cottonwood Road, Ames, IA 50014

**OBJECTIVE:** To obtain a research position, with emphasis on artificial intelligence.

**EDUCATION:**

9/09 – present

**Stanford University**, Stanford, CA

- Current Overall GPA: 3.94/4.0; B.S. degree in Computer Science expected 6/13
- Relevant Coursework: Machine Learning (MATLAB), Mining Massive Data Sets (Hadoop), Probabilistic Graphical Models (MATLAB), Artificial Intelligence (Python), Algorithms, Programming Abstractions (C++), Computer Systems (C), Principles of Computer Systems (C), Computational Molecular Biology (Python), Translational Bioinformatics (R); Linear Algebra, Differential Equations, Intro to Statistical Inference

8/05 – 5/09

**Iowa State University**, Ames, IA

- GPA: 4.0/4.0 (took classes during high school through the Post Secondary Enrollment Options Act)
- Relevant Coursework: Object-Oriented Programming (Java), Data Structures (Java); Mandarin (2 years)

**EXPERIENCE:**

9/11 – 12/11

**CS 198 Section Leader**, Computer Science Department, Stanford, CA

- Prepared for and taught section weekly for Stanford's introductory computer science class.
- Other responsibilities included grading and one-on-one assignment help for students.

6/11 – 8/11

**BOLD Practicum Intern**, Google, Mountain View, CA

- Added features including rectangle creation and snapping to the GT (Ground Truth) map-editing tool Atlas, in order to improve efficiency of polygon creation and editing. Programmed in Java, using Eclipse.

10/10 – 6/11

**Research Assistant**, Genetics Department, Stanford Medical School, Stanford, CA

- Wrote Python scripts and utilized bioinformatics tools to search for RNA editing sites.

6/10 – 8/10

**Software Development Intern**, Originate Labs, San Mateo, CA

- Learned the Ruby on Rails framework to create a website from scratch, for a customer.
- Gained experience with Ruby on Rails, HTML, CSS, Javascript, Ajax, and various Ruby on Rails gems.

8/10

**Resident Advisor and Course Assistant**, Stanford Summer Engineering Academy (SSEA), Stanford, CA

- Course Assistant for class on website development and web servers. Taught students in Java and Javascript.
- Organized events, hosted workshops. Advised the 50 rising Stanford freshmen attending SSEA.

8/08 – 9/09

**Software Development Intern**, PlantGDB Group, Iowa State University, Ames, IA

- Created tools, including a download tool, for the PlantGDB website. Used Perl, HTML, and MySQL.

6/08 – 7/08

**Research Intern**, Harvard Medical School, Cambridge, MA

- Wrote Python scripts to analyze the development of the Gene Ontology database.

6/07 – 12/07

**Research Intern**, Washington University Genome Center, St. Louis, MO

- Developed Perl programming skills in order to create a simulation tool suite to test DNA assembly programs.

**COMPUTER SKILLS:**

- Experienced with Java, C++, Python, and C
- Familiar with R, Perl, MySQL, HTML, Javascript, CSS, and Ruby on Rails

**VOLUNTEER ACTIVITIES:**

- Citizen Teacher, Citizen Schools: taught piano to sixth and seventh grade students in East Palo Alto
- Webmaster, Middle School Outreach Officer; Stanford Society of Women Engineers (SWE)
- Volunteer, Science in Service (SiS): conduct science experiments with underprivileged students in Bay Area

**HONORS/ AWARDS:**

- \$7,500 scholarship from Microsoft (twice)
- \$10,000 Google Engineering Intern Scholarship
- \$20,000 scholarship from MathMovesU (twice)
- 2009 Presidential Scholar; National Merit Scholar
- 2009 Siemens Award for Advanced Placement
- USAMO Qualifier; USABO Semifinalist