

## Austin Che

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### Home Address

305 Memorial Drive  
Cambridge, MA 02139  
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### Work Address

32 Vassar Street 32-314  
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### Education

MIT : August 2003-2008 (expected) Cambridge, MA  
Ph.D. candidate in Electrical Engineering and Computer Science  
Thesis: Genetically Reading and Writing RNA with Splicing Ribozymes  
Advisor: Tom Knight

MIT : September 2001-August 2003 Cambridge, MA  
S.M. Electrical Engineering and Computer Science  
Thesis: Fluorescence Assay for Polymerase Arrival Rates  
Available at: <http://hdl.handle.net/1721.1/16618>  
Advisor: Tom Knight

STANFORD UNIVERSITY : September 1997-June 2001 Stanford, CA  
B.S. Computer Science with Honors and A.B. Psychology. Graduated with Distinction  
Thesis: Designing and Implementing Kiwi: A Secure Distributed File System over HTTPS  
Advisor: Monica Lam

### Teaching

MIT SEED PROGRAM : Spring 2008 Instructor  
<http://openwetware.org/wiki/SEED>. Designed and taught a 10-week synthetic biology lab course for high school seniors.

MIT MITES PROGRAM : Summer 2003-Summer 2007 Instructor  
<http://mitesbio.mit.edu/>. Introduced a summer biology class to the MITES program. MITES is an intensive 6 week residential program for high school students.

MIT EECS : Fall 2006 Teaching Assistant  
TA for MIT course 6.021J - Quantitative Physiology: Cells and Tissues.

HARVARD MCB100 : Fall 2005 Teaching Fellow  
Introduced 11 students to experimental methods while working on projects related to synthetic biology.

MIT EDUCATIONAL STUDIES PROGRAM : Spring 2004 Instructor  
Taught a class on synthetic biology to high school students (10 weeks, 2 hour/week).

STANFORD COMPUTER SCIENCE DEPARTMENT : 9/2000-3/2001 Section Leader  
Lead a section of about 10 students for the beginning programming class (CS106)

TECHNICAL COMMUNICATIONS PROGRAM : 9/2000-12/2000 Instructor  
Taught public speaking for the Stanford School of Engineering.

STANFORD EDUCATIONAL STUDIES PROGRAM : 1999-2000 Instructor  
Created and taught several classes to high school students on paradoxes, parapsychology, and nano-computing.

### Work

OPENWETWARE : 2005-Present Board member  
Helped start and maintain a successful wiki devoted to sharing biological knowledge.

SYNTHETIC BIOLOGY iGEM COMPETITION : 2003-Present  
2006: Organized, recruited, and advised the MIT iGEM team  
2003: Helped with first IAP class.

Wrote first version of the Registry of Standard Parts: <http://partsregistry.org>

MIT : 9/2002–Present Residential Computing Consultant  
Help students in the dorm to solve computer and network issues

STANFORD COMPUTER SCIENCE DEPARTMENT : Summer 2000 SURF Fellow  
Research work on distributed file systems

SPACE SYSTEMS DEVELOPMENT LAB : 9/1999–7/2000 C&DH subsystem  
Low-level programming for Emerald nanosatellite project in the command and data handling subsystem

HEWLETT-PACKARD : Summer 1999 Intern  
Worked in ANSI C++ Compiler Group, making C++ compiler more ANSI C compliant and porting C++ compiler to IA-64

STANFORD DISTRIBUTED COMPUTING GROUP : 4/1999–9/2000 Consultant  
Answered questions from students and faculty related to Unix systems

STANFORD PSYCHIATRY NEUROIMAGING LAB : Summer 1998 Programmer  
Created web page: <http://www-cap.stanford.edu/>

NETIQ CORP. : Summer 1996 Developer  
Windows NT application programming and documentation

EDUCATION PROGRAM FOR GIFTED YOUTH : Summer 1993–1995 Intern  
Designed lessons for computer-based math/physics program for kids

**Conferences** SYNTHETIC BIOLOGY 3.0 : Jun 24–26, 2007 ETH Zurich  
Poster: Engineering Splicing Ribozyme: From Ribozymes to Transzystors

SYNTHETIC BIOLOGY 2.0 : May 20–22, 2006 Berkeley  
Poster: Engineering Synthetic *trans*-Splicing Ribozyme Systems

E-DUCATION WITHOUT BORDERS : Feb. 19–21, 2005 United Arab Emirates  
Paper and Presentation: Remote Biology Labs

SYNTHETIC BIOLOGY 1.0 : June 10–12, 2004 MIT  
Conference Organizer, Poster: Mindless Module Manipulations for Monkeys

**Honors** 6.270 MIT autonomous robot competition, 1st place and best design award: 2006  
National Defense Science and Engineering Graduate Fellowship: 2003  
MIT Presidential Fellowship: 2001  
Computer Science Department Best Honors Thesis (Ben Wegbreit Award): 2001  
Member Psi Chi: 2001  
Siebel Scholar: 2000  
Member Tau Beta Pi (chapter president): 1999  
National Merit Finalist: 1997  
National AP Scholar: 1997  
Member Phi Theta Kappa: 1997  
High School Class Valedictorian: 1997

**Publications** Synthetic Biology Abstractions <http://austinche.name/docs/abstraction.pdf>  
Remote Biology Labs <http://austinche.name/docs/remotebioblab.pdf>  
Fluorescence Assay for Polymerase Arrival Rates <http://hdl.handle.net/1721.1/16618>  
BioBricks++ Assembly <http://austinche.name/docs/bbpb.pdf>  
Formalizing Modular Assembly Systems <http://austinche.name/docs/assembly.pdf>  
Other documents available from <http://austinche.name/docs/>