

## Austin Che

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- Education**
- MIT : Sep. 2008 Cambridge, MA  
Ph.D. in Electrical Engineering and Computer Science  
Thesis: Engineering RNA Logic with Synthetic Splicing Ribozymes  
Advisor: Tom Knight
- MIT : Feb. 2004 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 : Jun. 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
- Work**
- GINKGO BIOWORKS : 2008–Present Founder  
Founded a synthetic biology startup based on tools to simplify the engineering of biology.  
Current operational responsibilities include acting as treasurer, managing payroll, and  
technology development.
- 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 award-winning MIT iGEM team  
2003: Helped with first IAP class.  
Wrote first version of the Registry of Standard Parts: <http://partsregistry.org>
- MIT : 2002–2008 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
- 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
- NETIQ CORP. : Summer 1996 Developer  
Developed software and application documentation for an early stage startup
- EDUCATION PROGRAM FOR GIFTED YOUTH : Summer 1993–1995 Intern  
Designed lessons for computer-based math/physics program for kids

**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.

**Conferences**

SYNTHETIC BIOLOGY 4.0 : Oct 10–12, 2008 Hong Kong  
 Poster: Engineering RNA Logic with Synthetic Splicing Ribozymes

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  
 High School Class Valedictorian: 1997

**Publications**

Synthetic Biology Abstractions <http://austinche.name/docs/abstraction.pdf>  
 Remote Biology Labs <http://austinche.name/docs/remotebiolab.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/>