

# ALICE HAEYUN OH

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## School Address

Massachusetts Institute of Technology  
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## EDUCATION

### **Massachusetts Institute of Technology**

Cambridge, MA, USA

Ph.D. (2007, expected)  
Department of Electrical Engineering and Computer Science  
Thesis: A Computational Model of Perspective  
Research Advisor: Dr. Howard Shrobe  
Thesis Readers: Prof. Patrick Winston, Prof. Regina Barzilay  
B.S. (June 1996)  
Department of Mathematics

### **Carnegie Mellon University**

Pittsburgh, PA, USA

M.S. (June 2000)  
Language Technologies Institute, School of Computer Science  
Thesis: Stochastic Natural Language Generation for Spoken Dialog Systems  
Advisor: Dr. Alex Rudnicky

## RESEARCH INTERESTS

- Multimedia and natural language generation using computational models of multiple perspectives
- Understanding human cognition through computational modeling

## TEACHING INTERESTS

- Artificial Intelligence
- Computational Modeling of Cognitive Processes
- Natural Language Processing

## TEACHING EXPERIENCE

### **Computer Science Instructor Women's Technology Program**

MIT Dept. of EECS  
Summer 2004

Designed and taught a group of advanced high school girls an introductory course in computer science, two classes of 20 students each. Responsible for the entire course including designing the course, preparing all lecture and homework material, managing teaching assistants. Served on the admissions committee. (<http://wtp.mit.edu>)

### **Teaching Assistant**

MIT Dept. of EECS  
Fall 2001, Fall 2002

Techniques in Artificial Intelligence (Graduate Course). Responsible for tutorials, preparing and grading assignments, grading exams, holding office hours.  
Lecturer: Prof. Leslie Kaelbling

## INDUSTRY EXPERIENCE

### **Research Staff**

Compaq Corporation  
Cambridge Research  
Laboratory  
Jul 2000 – Jan 2001

As part of a team of research scientists, designed and tested algorithms to improve the performance of SpeechBot, a multimedia retrieval system based on speech recognition techniques.

### **Technical Staff**

Oracle Corporation  
Jun 1997 – Jun 1998

Wrote and edited technical documents for Oracle server products. Collaborated with software developers to design more user-friendly instructions for installing and using Oracle databases.

**PUBLICATIONS**

Alice Oh and Alex Rudnicky. Stochastic natural language generation for spoken dialog systems. *Computer Speech and Language*, vol. 16, p. 387-407. October 2002.

Journal

Alice Oh, Harold Fox, Max Van Kleek, Aaron Adler, Krzysztof Gajos, Louis-Philippe Morency, and Trevor Darrell. Evaluating Look-to-Talk: A Gaze-Aware Interface in a Collaborative Environment. *Proceedings of ACM Conference on Human Factors and Computing Systems, CHI 2002*. Minneapolis, MN, 2002.

Refereed Conferences

Trevor Darrell, Konrad Tollmar, Frank Bentley, Neal Checka, Louis-Philippe Morency, Ali Rahimi, Alice Oh. Face-responsive interfaces: from direct manipulation to perceptive presence, *International Conference of Ubiquitous Computing*, 2002.

Alex Rudnicky, Christina Bennett, Alan Black, Ananlada Chotimongkol, Kevin Lenzo, Alice Oh, and Rita Singh. Task and domain-specific modeling in the Carnegie Mellon Communicator system. In *Proceedings of ICSLP 2000*.

Alice Oh. A come-from-behind win or a blown-save loss: Perspectives in baseball. *Proceedings of CSAIL Student Workshop*. 2005.

Others

Alice Oh, Gary Look, Tyler Horton, and Max Van Kleek. Awareness agents: a distributed system for group awareness. *Proceedings of Student Oxygen Workshop*. 2004.

Trevor Darrell, Neal Checka, Alice Oh, Louis-Philippe Morency. Exploring Vision-Based Interfaces: How to Use Your Head in Dual-Pointing Tasks, *AI Lab Memo*, 2002.

Alice Oh, Rattapoom Tuchinda, and Lin Wu. Meeting Manager: a Collaborative Tool in the Intelligent Room. *Proceedings of Student Oxygen Workshop*. 2001.

Alice Oh and Alex Rudnicky. Stochastic natural language generation for spoken dialog systems. *Proceedings of ANLP/NAACL 2000 Workshop on Conversational Systems*. May 2000.

**SERVICE ACTIVITIES**

**Representative of the Graduate Student Council  
MIT Council for Family and Work**

Fall 2005-Present

Serve the graduate students as a representative of the Graduate Student Council to the President-appointed Council for Family and Work. The Council draws up recommendations to the President regarding issues related to balancing work and life, including child care, living expenses, housing, and daily life stresses.

**SKILLS**

Programming in Java, C, Perl, shell script.  
Fluent in English and Korean.

**REFERENCES**

Dr. Howard Shrobe (hes@csail.mit.edu)  
Dr. Alex Rudnicky (air+@cs.cmu.edu)  
Others will be furnished upon request.