

MARGARET (MAGGIE) K. DELANO

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EDUCATION

Massachusetts Institute of Technology *Cambridge, MA, U.S.A*

Candidate for Bachelor of Science in Electrical Science and Engineering, 2010

Overall GPA: 4.3/5.0; Fall 2008 GPA: 5.0/5.0

Selected Coursework:

Electrical Engineering Microelectronic Devices and Circuits · Signals and Systems ·
Applied Electromagnetics · Communication, Control and Signal Processing

Ossining High School Ossining, NY, U.S.A • High School Diploma, 2006

EXPERIENCE

Magnetic Resonance Imaging Group (MIT RLE) - Undergraduate Researcher (January 2009 –)

- Working closely with a graduate student to implement popular MRI reconstruction techniques using parallel encoding

Personal Robotics Group (MIT Media Lab) - Undergraduate Researcher (Summer 2008)

- Worked as part of a four person team investigating human-robot interactions and perception
- Surveyed and introduced dozens of adult participants to Nexi, the Mobile Dextrous Social (MDS) robot

MIT Mobile Autonomous System Laboratory (MASLab) - Participant (January 2007)

- Worked as part of a four person team for one month creating an autonomous robot
- Designed and built a 12 inch circular robot using Solidworks

MIT Behavioral Neuroscience Lab - Undergraduate Researcher (Fall 2006 – Fall 2007)

- Helped scan older adults and Parkinson's disease patients
- Analyzed structural and functional MRI data in Freesurfer and FSL
- Programmed visual experiments in Matlab (Summer 2007)

Columbia University functional MRI lab - Student Researcher (Summer 2004 – Fall 2006)

- Scanned 12 patients and designed novel paradigm as part of fMRI experiment investigating conflict adaptation mechanisms in the Stroop and Simon tasks (Egner et al., 2007)
- Designed and administered a behavioral task to over 20 participants investigating conflict adaptation in the Simon task (Summer 2004)

SKILLS

- **Programming/Software:** Python, L^AT_EX, MATLAB, Subversion, Microsoft Office; Familiar with C/C++, HTML, Perl, Java, Scheme, FSL, SPM2, Freesurfer
- **Operating Systems:** Windows XP, Mac OS X, Linux (Debian, Ubuntu, CentOS)
- **Foreign Languages:** German (fluent), Italian (familiar)

LEADERSHIP

- **Senate Vice Chair, MIT Undergraduate Association** (Fall 2008 – present) – Organized and lead retreat for 20 members of the Undergraduate Association. Stimulated discussion about relevant goals and ideas for forward progress. Kept Senate meetings and legislation organized.
- **Vice President/Rooming Assignment Chair, East Campus Dormitory** (2008) – Restructured and lead a rooming meeting of 10 students to assign rooms for freshmen. Served as primary liason between the MIT Housing office and students of the dorm. Helped pass critical changes to dorm constitution.

PUBLICATIONS

- Egner T, Delano M, Hirsch J. Separate conflict-specific cognitive control mechanisms in the human brain. *Neuroimage* 2007, 35(2), 940-948