Debbie Yee

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EDUCATION

Massachusetts Institute of Technology
Candidate for Bachelor of Science degree in Brain and Cognitive Science, June 2011

RESEARCH EXPERIENCE

Gabrieli Laboratory *Cambridge, MA*
Undergraduate Research Opportunities Program, MIT Brain and Cognitive Sciences Department
January 2009 – present
• Used Event Related Potentials and masked priming technique to study the orthographic and phonological word processing during silent reading to identify neural correlates of reading deficits in dyslexia.
• Examined the neural basis of visual language using functional magnetic resonance imaging (fMRI) and Event Related Potentials (ERPs) for applications in developmental dyslexia. Collaborated in stimuli development, subject testing, data acquisition and analysis.

Corkin Laboratory *Cambridge, MA*
Undergraduate Research Opportunities Program, MIT Brain and Cognitive Sciences Department
January 2009
• Collected and analyzed data from functional magnetic resonance imaging (fMRI) and magnetoencephalography (MEG) to determine changes in white matter integrity in prefrontal and parietal brain regions and its correlation to attention processes during the course of healthy aging.

New York University Externship *New York, NY*
Researcher/Extern, NYU Center for Radiation Oncology
January 2008
• Investigated factors that determine treatment position of a breast cancer patient by analyzing information taken from Computed Tomography (CT) scans of 123 left breasted patients. Observed that 40% of patients with breast volume less than 750 cc tended to be better treated in the supine position, while only 4% of patients with breast volume greater than 750 cc tended to be better treated in the prone position.

Stony Brook University *Stony Brook, NY*
Mentor/Research Assistant, Garcia Center for Polymer Research
June 2007 – August 2007
• Mentored three high school students in energy research involving synthesis and application of metallic nanoparticles for fuel cells and hydrogen storage. Synthesized different concentrations of palladium and gold nanoparticle catalysts for polymer electrolyte membrane fuel cell application. Found nanoparticle-coated membranes yielded at most 30% increase in power output over the control

ACTIVITIES

Educational Studies Program - HSSP
•Taught 6-week Neuroscience class to high school students. Discussed sensation and perception, and related the impact of somatosensory system to daily life.
Panhellenic Association – *Executive Vice President* (2009)
• Coordinated Risk Management Policies and allocated mixer funding with representatives of six Panhellenic groups. Planned 'Women's Professional Day' with Alumni Association, a networking event where alumnae panelists were invited to share insight and experiences with the female student population at MIT.
Residential Associate Advisor (2008-2009)
• Mentored a group of incoming freshmen within the dorm to aid in adjustment to university. Planned relevant events with other advisors that provided resources and information to benefit first year students.
MIT Tour Guide
Kappa Alpha Theta – *Awards Chairman (2010), Alternate Panhel Delegate* (2008)
Society of Women Engineers – *Women in Science and Engineering Outreach Chair* (2008)

SKILLS

Technical: functional MRI, Electroencephalography (EEG), Magnetoencephalography (MEG)
Computer: Microsoft Office (Word, Excel, Dreamweaver), Adobe Photoshop, HTML, Python, MATLAB, Statistical Analysis (some SPSS, mostly Excel)
Languages: French (intermediate), Cantonese (conversant), Mandarin (beginner)

HONORS

Intel Science Talent Search Semifinalist (2007), Simons Summer Research Fellowship (2006), Moody's Mega Math Challenge Finalist (2006), Siemens Westinghouse Competition Semifinalist (2005)