

## MIRIAM MAKHLOUF

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### Objective

Modeling technologies developed in the practice of engineering can be applied to re-engineer healthcare services. My prior experience in developing computational models of speech and voice disorders will enable me to contribute to this effort.

### Education

Ph.D. in Speech and Hearing Biosciences and Technology (projected) December 2010  
Harvard-MIT Division of Health Sciences and Technology  
Co-advisors: Robert E. Hillman, Anne J. Blood, Frank Guenther  
Massachusetts Institute of Technology and Harvard University, Cambridge, MA

Bachelor of Arts in Computer Science, cum laude June 2004  
Cognitive and Neural Systems post-graduate courses  
Boston University, Boston, MA

### Academic Activities

Research Assistant, Massachusetts General Hospital  
Martinos Center for Biomedical Imaging, Charlestown, MA September 2004 – present  
Center for Laryngeal Surgery and Voice Rehabilitation, Boston, MA September 2006 – present

Research Assistant, Boston University  
Department of Cognitive and Neural Systems, Boston, MA June 2008 – present

### Professional Affiliations

Society for Neuroscience September 2004-present

### Special Distinctions

Advanced Multimodal Neuroimaging Training Program scholar September 2009 – present  
NIH speech and hearing bioscience and technology training scholar September 2006 – 2009

### Publications/Abstracts

- Blood AJ, Tuch DS, Makris N, **Makhlouf M**, Sudarsky LR, Sharma N., "White matter abnormalities in dystonia normalize after botulinum toxin treatment", *NeuroReport* 2006; 17(12):1251-5.
- Blood A.J., Kuster J., Multhaupt-Buell T.J., Makris N., **Makhlouf M.L.**, Sudarsky L.R., Sharma N. "Further evidence for pallidal output abnormalities in cervical dystonia", *Movement Disorder Society*, June 2009.
- **Makhlouf ML**, Sharma N, Multhaupt-Buell TJ, Kuster J, Hillman RE, Blood AJ. "Evidence for brain microstructural abnormalities in spasmodic dysphonia", *SfN*, November 2008.
- Blood A., Flaherty A., Sudarsky L., Wernick-Robinson M., Tlumacki M., **Makhlouf M.**, Sharma N., "Evaluation of the Lerman Minerva Cervical Orthosis for treatment of cervical and upper truncal dystonias", *Movement Disorders* 20, s30-s31 p104 Suppl. 10, 2005.
- Blood A., Sharma N., Tuch, D., Benner T., Makris, N., **Makhlouf, M.**, Sudarsky, L., "Evidence for altered microstructural integrity in focal dystonia", *Annual Meeting of the Organization for Human Brain Mapping*, June 2005.

### Interests/Activities

Co-founder of Flamenco@MIT student group, proficient in Spanish.