

JASON M. TOKAYER

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EDUCATION	Ph.D. Student, Electrical Engineering-Systems University of Southern California, Viterbi School of Engineering GPA 3.90 on a 4.0 scale	Expected: May 2013 Los Angeles, CA
	Master of Science, Electrical Engineering-Systems University of Southern California, Viterbi School of Engineering GPA 3.94 on a 4.0 scale	Aug 2008 Los Angeles, CA
	Bachelor of Science, Electrical and Computer Engineering Rutgers Honors Program, School of Engineering GPA 3.86 on a 4.0 scale	May 2006 Piscataway, NJ
RESEARCH EXPERIENCE	Research Assistant, Center for Ophthalmic Optics and Lasers Doheny Eye Institute, Keck School of Medicine <ul style="list-style-type: none">• Performing optical coherence tomography experiments for retinal study• Studying feasibility of utilizing compressed sensing in OCT• Implementing processing techniques for next generation OCT systems Visiting Research Assistant, Research Laboratory of Electronics Research under James Fujimoto, Ph.D. <ul style="list-style-type: none">• Learned optical configurations for FD and SD optical coherence tomography systems• Implemented fixation target application to be used in clinical setting Study of Near Infrared (NIR) Techniques for Brain Analysis Research under B. Keith Jenkins, Ph.D. <ul style="list-style-type: none">• Examined feasibility of a real-time brain computer interface using NIR techniques• Learned acquisition techniques for optical brain signals	2009-present Univ. Southern California Summer 2009 MIT 2007-2009 Univ. Southern California
HONORS AND AWARDS	<ul style="list-style-type: none">• Project of the year, Optics, Fall 2008• USC Annenberg Graduate Fellowship, 2007-2008• USC Graduate Dean's Fellowship, 2006-2007	
PROJECTS	Relaxation of the Paraxial Approximation <ul style="list-style-type: none">• Simulated ray tracing methods in Matlab• Images point source through a spherical interface• Tested textbook approximation and found that deviates significantly from exact solution Expert Hold 'em: A Fuzzy Approach <ul style="list-style-type: none">• Designed an standard additive fuzzy system to model expert betting strategy• Programmed system in Matlab• Tuned the system parameters using Gradient Descent method with training data from expert	Fall 2008 Spring 2007
GRADUATE COURSES	Optical Information Processing Mathematical Pattern Recognition Adv. Studies of the Nervous System Optical Materials, Instruments and Devices	Optics Neural and Fuzzy Systems Random Processes Probability Theory