

# Me Too

---

EDUCATION	<b>Ph.D., Mechanical Engineering</b> Expected August 2010 Specialization: Haptic Feedback for Prosthetics Advisor: Dr. xxx	Johns Hopkins University
	<b>M.S., Mechanical Engineering</b> 2004-2006 Specialization: Robotics Advisor: Dr. xxx	Johns Hopkins University
	<b>B.S., Mechanical Engineering, <i>Cum Laude Society</i></b> 2000-2004 Thesis: Determination of Human Dynamics in a Pivot Turn	University of Pennsylvania
AWARDS/ ACHIEVEMENTS	NSF Graduate Research Fellowship	Sep 2006 - Sep 2009
	Dean's Fellowship, JHU Whiting School of Engineering	Sep 2004 - Sep 2009
	Jacob M. Abel Undergraduate Summer Research Internship, UPenn	June 2003 - August 2003
	John & Lillian Neff Scholarship, UPenn	Sep 2000 - May 2004
RESEARCH EXPERIENCE	<b>Proprioceptive Feedback for Prosthetics</b> May 2006-Present <i>Haptics Laboratory</i> Created a robotic system and conducted human subjects studies to investigate the importance of proprioception during motion control and stiffness discrimination tasks. Results showed proprioception improves success rate during a targeting task.	Johns Hopkins University
	<b>Vibratory Feedback to the Foot for Prosthetics</b> May 2006-Present <i>Haptics Laboratory</i> Currently designing an experimental setup and will run a human subjects study to investigate the possibility of providing upper-limb prosthesis users tactile feedback, by giving vibrations to the foot.	Johns Hopkins University
	<b>Human Performance in a Knob-Turning Task</b> September 2004-March 2007 <i>Haptics Laboratory</i> Created a robotic system and designed a human subject study to investigate turning strategies in a knob-turning task. Principal results from this study indicate that humans change their turning strategy depending on the knob-turning difficulty and apply forces and torques in directions that are not conducive to the task.	Johns Hopkins University
	<b>Analysis of Human Movement</b> January 2003-May 2004 <i>Vestibular Ocular Motor Research Laboratory</i> Revised a human turning model to be more mathematically and anatomically accurate, did biomechanical testing, and created a simulation that supported my hypothesized turning model.	University of Pennsylvania
	<b>Determination of Flow Patterns in Uterine Model</b> May-August 2002 <i>Biofluids Lab</i> Performed biofluid study to analyze flow patterns in a uterine model upon injection of a dye.	Tel Aviv University

TEACHING  
EXPERIENCE

**Teaching Assistant** Johns Hopkins University  
January - May 2008  
Course: Electronics & Instrumentation  
Level of Course: Sophomore Undergraduate  
Primary Instructor: Dr. xxx  
Instructing weekly lab sessions, grading lab reports, holding office hours, and lecturing three classes.

**Teaching Assistant** Johns Hopkins University  
January - May 2006  
Course: Design and Analysis of Dynamic Systems  
Level of Course: Junior Undergraduate  
Primary Instructor: Dr. xxx  
Student Evaluations:  
Effectiveness in helping students learn course material: 4.2/5  
Genuine interest in students' progress in the course: 4.25/5  
Provided thorough answers to student questions: 4.5/5  
Held office hours, conducted problem solving sessions, graded homework, wrote up homework solutions, and lectured one class.

**Academic Tutor** University of Pennsylvania  
September 2002 - May 2003  
Topics: Calculus I, II, and Hebrew

MENTORING  
EXPERIENCE

**Undergraduate Student Mentor** Johns Hopkins University  
June 2008 - Present  
Topic: Vibratory Feedback to the Foot for Prosthetics  
Mentoring undergraduate student, xxx, in completing the design of an experimental set up, running a human subject study, and analyzing the results for a foot haptics experiment.

**Undergraduate Student Mentor** Johns Hopkins University  
October 2007 - December 2007, October 2008 - November 2008  
Topic: Vibratory Feedback to the Foot for Prosthetics  
Mentoring undergraduate student, xxx, in the design of an experimental set up and human subject study for a foot haptics experiment.

**Undergraduate Student Mentor** Johns Hopkins University  
January 2007 - May 2007  
Topic: Skin Stretch Device for Prosthetics  
Mentored undergraduate student, xxx, in the design of a skin stretch proprioceptive feedback device for prosthetics.

**High School Students Mentor** Johns Hopkins University  
January - May 2006 & June - August 2006  
Topic: Haptic Museum Display  
Mentored two high school students consecutively in designing and building an educational haptic device to be displayed in a museum.

REFERENCED  
CONFERENCE  
PUBLICATIONS

J. Tapson, N. Gurari, J. Diaz, E. Chicca, D. Sander, P. Pouliquen, and R. Etienne-Cummings, *The Feeling of Color: A Haptic Feedback Device for the Visually Disabled*. Biomedical Circuits and Systems Conference (BiOCAS), 2008.

K. J. Kuchenbecker, N. Gurari, and A. M. Okamura, *Effects of Visual and Proprioceptive Motion Feedback on Human Control of Targeted Motion*. 10th International Conference on Rehabilitation Robotics (ICORR), pp. 513-524, 2007.

N. Gurari and A. M. Okamura, *Human Performance in a Knob-Turning Task*. Second Joint Eurohaptics Conference and Symposium on Haptic Interfaces for Virtual Environment and Teleoperator Systems (World Haptics), pp. 96-101, 2007.

K. J. Kuchenbecker, N. Gurari, and A. M. Okamura, *Quantifying the Value of Visual and Haptic Position Feedback During Force-Based Motion Control*. Second Joint Eurohaptics Conference and Symposium on Haptic Interfaces for Virtual Environment and Teleoperator Systems (World Haptics), 2007.

PROFESSIONAL  
ACTIVITIES

**Leadership Activities**

LCSR Graduate Student Committee, JHU, <i>Haptics Lab Representative</i>	April 2007 - Present
Women of Whiting, JHU, <i>Panel Chair</i>	Jan 2007 - Present
Women of Whiting, JHU, <i>Peer Advisor</i>	Sep 2006 - Present
Women of Whiting, JHU, <i>Social Chair</i>	Sep 2006 - Dec 2006
Haptics Laboratory, JHU, <i>Manager of Human Subjects Protocols</i>	Sep 2006 - Present
Haptics Laboratory, JHU, <i>Demo Coordinator</i>	Sep 2005 - May 2006
Haptics Laboratory, JHU, <i>Web Master</i>	Sep 2004 - May 2005
Society of Bioengineering, UPenn, <i>Sophomore Class Representative</i>	Sep 2001 - May 2002

**Outreach Events**

2008 JHU Teaching Assistant Orientation, ' <i>Leading Labs: Engineering</i> ' <i>Speaker, Teaching Assistant Panel Member</i>	Sept 3, 2008
Women of Whiting, <i>WISE Panel Speaker</i>	Oct 19, 2006
Ready, Set, Design!, <i>Volunteer</i>	Feb 2006
Computer Mania Day, <i>Break Out Session Leader</i>	April 9, 2005
Surgical Lego Competition, <i>Volunteer</i>	Feb 2005
New Bike's Works, <i>Volunteer</i>	Sep 2001 - May 2002

**Workshops Attended**

Telluride Neuromorphic Cognition Engineering Workshop	July 2008
JHU Teaching Assistant Training Workshops	Feb 2006 - May 2006

**Technical Reviews**

World Haptics (with Peer)	2009
IEEE International Conference on Robotics & Automation (w/ Advisor)	2009
IEEE Transactions on Systems, Man, & Cybernetics (w/ Advisor)	2008
IEEE International Conference on Robotics & Automation (w/ Advisor)	2007
Eurohaptics (w/ Advisor)	2006

### Professional Memberships

Society for Neuroscience	Sep 2008 - Present
Institute of Electrical and Electronics Engineers	Jan 2006 - Present
Women of Whiting, JHU, <i>Engineering School Women's Support Group</i>	Jan 2006 - Present
CISSRS Student Computer Integrated Surgery Society, JHU	Sep 2005 - Present
Pi Tau Sigma, Mechanical Engineering Honor Society	Sep 2004 - May 2005
Society of Bioengineering (BE), UPenn, <i>Undergraduate BE Society</i>	April 2004 - Present
	Sep 2001 - May 2002

### EXTRACURRICULAR ACTIVITIES

JHU Capoeira Member, <i>Instructor, Website Coordinator, and Leader</i>	Sep 2004 - Present
Salsa Dancing	May 2007 - Oct 2007
ASCAB Penn Capoeira Member, <i>President</i>	Dec 2002 - May 2004
Marathon Training	Aug 2002 - Oct 2002
Club Swim Team	Jan 2002 - May 2002
PADI Scuba Diving Certification	Sep 2001 - Dec 2001
Varsity Track Team	March - May 2001
Varsity Gymnastics Team	Sep 2000 - March 2001

### PERSONAL

Date of Birth: xxx  
Place of Birth: xxx  
Citizenships: xxx  
Languages:  
- English Fluency  
- Hebrew Fluency  
- Russian Proficiency  
- Spanish Proficiency  
- Working Knowledge of Portuguese  
- Working Knowledge of Polish

### CONTACT INFORMATION

Department of Mechanical Engineering  
G.W.C. Whiting School of Engineering  
Johns Hopkins University  
136 CSEB  
3400 N Charles Street  
Baltimore, MD 21218

Phone: xxx  
Fax: xxx  
Email: xxx  
Web Page: xxx  
Lab Home Page: xxx