

Me Too

EDUCATION	Ph. D., Mechanical Engineering Expected May 2009 Specialization: Human Exploration Advisor: Dr. xxx	Johns Hopkins University
	M.S., Mechanical Engineering 2004-2006 Specialization: Robotics Advisor: Dr. xxx	Johns Hopkins University
	B.S., Mechanical Engineering, <i>Cum Laude Society</i> 2000-2004 Thesis: Determination of Human Dynamics in a Pivot Turn	University of Pennsylvania
RESEARCH EXPERIENCE	Proprioceptive Feedback for Prosthetics May 2006-Present <i>Haptic Exploration Lab</i> Created robotic system and ran human subject studies to investigate the importance of proprioception during targeting and stiffness discrimination tasks. Results showed proprioception to improve success rate of performance during targeting task. Stiffness discrimination data is currently being analyzed.	Johns Hopkins University
	Foot Feedback for Prosthetics May 2006-Present <i>Haptic Exploration Lab</i> Currently designing experimental setup and human subject study to investigate the viability of using the foot as a location for providing vibratory feedback to an upper-limb prosthesis user.	Johns Hopkins University
	Human Exploration September 2004-March 2007 <i>Haptic Exploration Lab</i> Created robotic system and designed human subject study to investigate human exploration methods used during knob turning task. Results found that subjects tend to use finger dexterity during knob-turning motions when possible, a change in the knob turning difficulty will cause a change in the knob-turning method used, and subjects apply forces and torques in directions that are not conducive to the knob-turning task.	Johns Hopkins University
	Analysis of Human Movement January 2003-May 2004 <i>Vestibular Ocular Motor Research Laboratory</i> Revised a pivot turn model into a more mathematically and anatomically accurate one, did biomechanical testing, and analyzed the data. I completed this project by creating a simulation that supported my hypothesized pivot turn model.	University of Pennsylvania
	Determination of Flow Patterns in Uterine Model May-August 2004 <i>Biofluids Lab, In Vitro Fertilization</i> Performed biofluid tests to allow analysis of various flow patterns in a uterine model upon injection of a dye. My contribution finished at the end of the summer, however this project concluded with a publication in Human Reproduction, in which I was referenced in the acknowledgments.	Tel Aviv University

TEACHING
EXPERIENCE

Undergraduate Student Mentor Johns Hopkins University
October 2007 - Present
Topic: Haptics Research
Mentored a Johns Hopkins University undergraduate student in the creation of a human subject study for a foot haptics experiment.

Undergraduate Student Mentor Johns Hopkins University
January 2007 - May 2007
Topic: Haptics Research
Mentored a Johns Hopkins University undergraduate student in the design of a proprioceptive feedback device.

High School Student Mentor Johns Hopkins University
June - August 2006
Topic: Haptics Research
Mentored a high school student in teleoperation research.

Teaching Assistant Johns Hopkins University
January - May 2006
Course: Design and Analysis of Dynamic Systems
Primary Instructor: Dr. Allison Okamura
Conducted bimonthly Problem Solving Sessions along with graded and wrote up solutions to problem sets and weekly held TA office hours.

High School Student Mentor Johns Hopkins University
January - May 2006
Topic: Haptic Museum Display
Mentored a High School student in the creation of an educational haptic device to be displayed in a museum.

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

AWARDS/
ACHIEVEMENTS

NSF Graduate Research Fellowship	2006 - 2009
Dean's Fellowship	2004 - 2009
Jacob M. Abel Undergraduate Summer Research Internship	Summer 2003
John & Lillian Neff Scholarship	2000 - 2004

REFERENCED
CONFERENCE
PUBLICATIONS

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.

*Oral presentation was given at World Haptics Conference.

PROFESSIONAL
ACTIVITIES

Leadership Activities

LCSR Graduate Student Committee Holiday Social Organizer
Haptics Lab Representative, LCSR Graduate Student Committee
Panel Chair, Women of Whiting (WoW)
Peer Advisor, Women of Whiting (WoW)
Social Chair, Women of Whiting (WoW)
Manager of Human Subjects Protocols, Haptic Exploration Lab
Demo Coordinator, Haptic Exploration Lab
Web Master, Haptic Exploration Lab
Sophomore Class Representative, Society of Bioengineering (SoBE)

May 2000 - Present
December 2007
April 2007 - Present
January 2007 - Present
Fall 2006 - Present
Fall 2006
2006 - 2007
2005 - 2006
2004 - 2005
2001 - 2002

Technical Outreach Events

Ready, Set, Design (<http://www.jhu.edu/~asme/readyssetdesign>)
Surgical Lego Competition
New Bike's Works Volunteer (<http://www.neighborhoodbikeworks.org/>)
Women of Whiting WISE Panel Speaker
Computer Mania Day Break Out Session Leader

February 2006
February 2005
2001 - 2002
October 19, 2006
April 9, 2005

Workshops Attended

JHU Teaching Assistant Training Workshops

Spring 2006

Technical Reviews (with Advisor)

ICRA 2007
Eurohaptics 2006

Professional Memberships

Institute of Electrical and Electronics Engineers (IEEE)
Women of Whiting, WoW
CISSRS Student Computer Integrated Surgery Society
Pi Tau Sigma, Mechanical Engineering Honor Society
Society of Bioengineering (SoBE)

January 2006 - Present
September 2005 - Present
2004 - 2005
April 2004
2001 - 2002

EXTRACURRICULAR
ACTIVITIES

Salsa Dancing
JHU Capoeira Member, *Instructor, Website Coordinator, and Leader*
ASCAB Penn Capoeira, President
Club Swim Team
Marathon Training
Scuba Diving Certification
Varsity Track Team
Varsity Gymnastics Team

May 2007 - Present
September 2004 - Present
2002 - 2004
2002 - 2002
Fall 2002
Fall 2001
March - May 2001
2000 - 2001

CONTACT INFORMATION

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

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