Me Too

Education

Ph.D., Mechanical Engineering — Johns Hopkins University
Expected Aug 2010
Specialization: Haptic Feedback for Prosthetics
Advisor: Dr. xxx

M.S., Mechanical Engineering — Johns Hopkins University
2004 - 2006
Specialization: Robotics
Advisor: Dr. xxx

B.S., Mechanical Engineering, *Cum Laude Society* — University of Pennsylvania
2000 - 2004
Thesis: Determination of Human Dynamics in a Pivot Turn

Awards/ Achievements

NSF Graduate Research Fellowship	Sep 2006 - 2008, Sep 2009 - 2010
Dean's Fellowship, JHU Whiting School of Engineering	Sep 2004 - Sep 2009
Jacob M. Abel Undergraduate Summer Research Internship, UPenn	Jun 2003 - Aug 2003
John & Lillian Neff Scholarship, UPenn	Sep 2000 - May 2004

Research Experience

Proprioceptive Feedback for Prosthetics — Johns Hopkins University
May 2006 - Present
Haptics Laboratory
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.

Vibratory Feedback to the Foot for Prosthetics — Johns Hopkins University
May 2006 - Jun 2009
Haptics Laboratory
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.

Human Performance in a Knob-Turning Task — Johns Hopkins University
Sep 2004 - Mar 2007
Haptics Laboratory
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.

Analysis of Human Movement — University of Pennsylvania
Jan 2003 - May 2004
Vestibular Ocular Motor Research Laboratory
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.

Determination of Flow Patterns in Uterine Model
May - Aug 2002 — Tel Aviv University
Biofluids Lab
Performed biofluid study to analyze flow patterns in a uterine model upon injection of a dye.

Teaching Experience

Teaching Assistant — Johns Hopkins University
Jan - 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
Jan - 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
Sep 2002 - May 2003
Topics: Calculus I, II, and Hebrew

Mentoring Experience

Undergraduate Student Mentor — Johns Hopkins University
Aug 2008 - Present
Topic: Haptic Feedback through Toe Stimulation
Mentoring undergraduate student, xxx, in completing the design of an experimental set up, running a human subject study, analyzing the results, and publishing the findings.

Undergraduate Student Mentor — Johns Hopkins University
Jun 2008 - Feb 2009
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, analyzing the results, and publishing the findings.

Undergraduate Student Mentor — Johns Hopkins University
Oct - Dec 2007, Oct - Nov 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
Jan - 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
Jan - May 2006 & Jun - Aug 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

N. Gurari, K. Smith, M. Madhav, and A. M. Okamura, *Environment Discrimination with Vibration Feedback to the Foot, Arm, and Fingertip.* Proceedings of the 11th International Conference on Rehabilitation Robotics (ICORR), pp. 343-348, 2009.

N. Gurari, K. J. Kuchenbecker, and A. M. Okamura, *Stiffness Discrimination with Visual and Proprioceptive Cues.* Proceedings of the Third Joint Eurohaptics Conference and Symposium on Haptic Interfaces for Virtual Environment and Teleoperator Systems (World Haptics), pp. 121-126, 2009.

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.* Proceedings of the Biomedical Circuits and Systems Conference (BiOCAS), pp. 381-384, 2008.

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

N. Gurari and A. M. Okamura, *Human Performance in a Knob-Turning Task.* Proceedings of the 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.* Proceedings of the 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, *Haptics Lab Representative*	Apr 2007 - Present
Women of Whiting, JHU, *Panel Chair*	Jan 2007 - Aug 2009
Women of Whiting, JHU, *Peer Advisor*	Sep 2006 - Aug 2009
Women of Whiting, JHU, *Social Chair*	Sep 2006 - Dec 2006
Haptics Laboratory, JHU, *Manager of Human Subjects Protocols*	Sep 2006 - Dec 2009
Haptics Laboratory, JHU, *Demo Coordinator*	Sep 2005 - May 2006
Haptics Laboratory, JHU, *Web Master*	Sep 2004 - May 2005
Society of Bioengineering, UPenn, *Sophomore Class Representative*	Sep 2001 - May 2002

Outreach Events

Engineering Without Borders, *Member*	Sep 2009 - Present
2008 JHU Teaching Assistant Orientation, *'Leading Labs: Engineering' Speaker, Teaching Assistant Panel Member*	Sep 2008
Women of Whiting, *WISE Panel Speaker*	Oct 2006
Ready, Set, Design!, *Volunteer*	Feb 2006
Computer Mania Day, *Break Out Session Leader*	Apr 2005
Surgical Lego Competition, *Volunteer*	Feb 2005
New Bike's Works, *Volunteer*	Sep 2001 - May 2002

Workshops Attended

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

Technical Reviews

Haptics Symposium	2010
World Haptics (w/ 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

Engineers Without Borders – USA	Oct 2009 - Present
Society for Neuroscience	Jan 2008 - Present
Institute of Electrical and Electronics Engineers	Jan 2006 - Present
Women of Whiting, JHU, *Engineering School Women's Support Group*	Sep 2005 -Sep 2009
CISSRS Student Computer Integrated Surgery Society, JHU	Sep 2004 - May 2005
Pi Tau Sigma, Mechanical Engineering Honor Society	April 2004 - Present
Society of Bioengineering (BE), UPenn, *Undergraduate BE Society*	Sep 2001 - May 2002

Extracurricular Activities

Couchsurfer	Nov 2008 - Present
Outdoorsy Activities Enthusiast	May 2008 - Present
Salsa Dancing	May 2007 - Present
Cuban Salsa, *Assistant Instructor*	Jan 2009
Women's Self Defense, *Assistant Instructor*	Jan 2009
JHU Capoeira, *Instructor, Website Coordinator, and Leader*	Sep 2004 - May 2008
ASCAB Penn Capoeira, *President*	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	Mar - May 2001
Varsity Gymnastics Team	Sep 2000 - Mar 2001
9th Pan American Maccabi Games, *Gymnastics Team Member*	Jul 1999

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

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