

Me

Last updated on January 29, 2012

EDUCATION	Ph.D. Candidate Computer Science , <i>Boston University</i> Topic: Automated Cell Analysis; Advisor: Dr. Margrit Betke	2010 - Present
	M.S. Computer Science , <i>Washington University</i> Thesis: Harmonic Imaging; Advisor: Dr. William D. Richard	2004 - 2005
	B.S. Biomedical Engineering, Minor in Philosophy , <i>Washington University</i> Graduated with Cum Laude Honors	2000 - 2005
HONORS AND AWARDS	Ford Foundation Fellowship Honorable Mention Florence W. Moe Memorial Scholarship	2011 2000-2004
PROFESSIONAL EXPERIENCE	Software Developer/Project Manager/Education Lead , <i>Boulder Imaging</i> <ul style="list-style-type: none">• Integrated support for data capture and settings control for various devices (e.g., cameras, lights) and created algorithms to analyze image content• Created a project management program and managed a 6 person team while overseeing 30+ custom project deliveries• Developed curriculum and materials for training customers and employees and presented these through video recordings and in class	2007 - 2010
	Software Engineer , <i>Raytheon</i> <ul style="list-style-type: none">• Created scripts to monitor and manage the health of processes running on multiple Unix environments for different versions of the system software• Developed an application to convert satellite data from HDF5 file format to its native format	2005 - 2007
RESEARCH EXPERIENCE	Automated Tracking of Cell Populations , <i>Boston University</i> Identifying key observable characteristics biologists use to distinguish between fibroblast cell states (machine learning) and evaluating optimal segmentation methods to apply for each state. The main challenge is maintaining cell recognition because cells undergo continuous deformation.	2010 - Present
	Image Analysis of Lung Explants , <i>University of Colorado Denver</i> Evaluated techniques for characterizing the branching development of mouse embryonic lungs. The main challenge was segmenting the lung boundary.	2007 - 2008
	Harmonic Imaging Ultrasound System , <i>Washington University</i> Evaluated whether harmonic imaging method returns images more accurately representing the materials than the traditional fundamental imaging method for a real-time mechanical sector, B-mode ultrasound system. The main challenge was building a real-time system that performs both fundamental and harmonic imaging.	2004 - 2005
PEER-REVIEWED CONFERENCE PUBLICATION	B. Kim, D. Gurari , H. O'Donnell, and M. Betke. Interactive Art System for Multiple Users Based on Tracking Hand Movements. <i>IADIS International Conference Interfaces and Human Computer Interaction (IHCI)</i> , Rome, Italy, July 2011. pdf .	

THESIS	D. Gurari. Harmonic Imaging Using a Mechanical Sector, B-Mode Ultrasound System. <i>Master's Thesis</i> , Washington University Department of Computer Science, August 2005. pdf .	
TECHNICAL PAPER REVIEWS	Neurocomputing (w/ Advisor) Computer Vision and Pattern Recognition (w/ Advisor)	2012 2012
INVITED TALKS	<p>Technical Interactive Art System for Multiple Users Based on Tracking Hand Movements. Paper Presentation, <i>IADIS International Conference Interfaces and Human Computer Interaction (IHCI)</i>, Rome, Italy, July 24, 2011.</p> <p>Outreach Automated Cell Tracking. Presentation to first year BU undergraduate students, <i>Kern Leadership Workshop</i>, Boston University, MA, USA, Sep 24, 2011.</p> <p>How to Find and Win a Fellowship. Presentation to undergraduate and first year graduate science and engineering female students, <i>Graduate Women In Science and Engineering Seminar</i>, Boston University, MA, USA, Sep 17, 2011.</p> <p>Introduction to Computer Vision. Presentation to high school females from the Boston community, <i>The Artemis Project</i>, Boston University, MA, USA, July 11, 2011.</p>	
TEACHING EXPERIENCE	<p>Teaching Assistant, <i>Boston University</i> Course: Image and Video Computing(Graduate Level) Primary Instructor: Dr. Margrit Betke</p> <p>Teaching Assistant, <i>Boston University</i> Course: Image and Video Computing (Graduate Level) Primary Instructor: Dr. Margrit Betke</p> <p>Education Lead, <i>Boulder Imaging</i> Topics: High performance cameras; Video standards; High performance digital video recording systems; Image processing and analysis. Role: Created curriculum and materials for training employees and customers (in-class and video)</p> <p>Academic Tutor, <i>Washington University</i> Topics: Calculus, Signal Analysis for Electronic Circuits and Systems</p>	Fall 2011 Spring 2011 2008-2010 2001-2005
WORKSHOPS ATTENDED	<p>Graduate Cohort Workshop. <i>Computing Research Association for Women</i>, Boston, MA, April 1-2, 2011.</p> <p>First Workshop on Computer Vision Tracking of Cell Populations. <i>Intel Labs at Carnegie Mellon University</i>, Pittsburgh, PA, March 22-23, 2011.</p>	
PROFESSIONAL ACTIVITIES	<p>Leadership Image and Video Computing Group, <i>Seminar Coordinator</i> Graduate Women in Science & Engineering, <i>Outreach Officer</i> Habitat for Humanity, <i>Proposal Chair</i> Alpha Phi Omega Service Fraternity, <i>Board Member</i></p>	2011 - Present 2011 - Present 2003 2002 - 2003

Memberships

Association for Women in Science (AWIS)	2011 - Present
Institute of Electrical and Electronic Engineers (IEEE)	2010 - Present
Association for Computing Machinery (ACM)	2010 - Present
Graduate Women in Science & Engineering (GWISE)	2010 - Present

MENTORING

MeToMeToo , www.metometoo.com	2011 - Present
My identical twin sister and I share resources we use while developing academic careers with the larger goal of establishing a centralized resource for those following similar career choices.	

EXTRACURRICULAR ACTIVITIES

Outdoors Activities (hiking, mountain biking, camping, etc.)	
Samba Dancing, <i>Performer</i>	2008 - Present
Capoeira Brasil, <i>Member, Assistant Instructor, Treasurer</i>	2003 - 2008
Runner, <i>Columbus Marathon, Cincinnati Marathon</i>	1994 - Present

CONTACT INFORMATION

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