CURRICULUM VITAE Ekaterina Taralova ekaterina@cmu.edu

EDUCATION

- PhD Candidate, Computer Science, Carnegie Mellon University, August 2008 present.
- Bachelor of Science, Computer Science and Mathematics, May 2007, The University of Arizona, Cumulative GPA: 3.91/4.0 Dean's List with Distinction, College of Science Outstanding Senior.

PUBLICATIONS

- "Structured Bag of Words for Activity Recognition in Videos,"
 PhD Thesis Proposal, 2013¹
- "Source Constrained Clustering"
 E. Taralova, F. De la Torre Frade, and M. Hebert,
 in International Conference on Computer Vision, 2011.
- "Modelling and visualizing morphology in the fungus Alternaria"
 E. Taralova, J. Schlecht, K. Barnard, and B. M. Pryor,
 Fungal Biology, Vol. 115, 2011
- "Temporal Segmentation and Activity Classification from First-person Sensing"
 E. Spriggs², F. De la Torre Frade, and M. Hebert,
 in Computer Vision and Pattern Recognition, Workshop on Egocentric Vision, 2009
- "Inferring Grammar-based Structure Models from 3D Microscopy Data"
 J. Schlecht, K. Barnard, E. Spriggs², B. Pryor, in Computer Vision and Pattern Recognition, 2007
- "Modeling complex 3D structure in Alternaria and applications to morphometric analysis"
 E. Spriggs², J. Schlecht, K. Barnard, B. Pryor,
 Annual Meeting of the Mycological Society of America, 2007
- "Predicting emotional experience from autonomic physiology using machine learning methods"

E. Spriggs², E. Butler, K. Barnard, F. H. Wilhelm, J. J. Gross, Annual Meeting of the Society for Psychophysiological Research, 2007

HONORS AND AWARDS

- National Science Foundation Graduate Student Research Fellowship, Aug 2008 Aug 2011
- Computing Research Association Outstanding Undergraduate Awards Finalist, 2007
- College of Science Outstanding Senior and Galileo Circle Scholar, University of Arizona, 2007
- Computer Science Department Outstanding Senior and Excellence in Undergraduate Research Awards, University of Arizona, May 2007
- "Modeling and Visualizing Alternaria," first place, Undergraduate Student Showcase, Computer Sciences Field and the BIO5 Institute Innovator Award University of Arizona, Nov 2006
- "Pillars of Excellence" Award, Honors College Scholar, University of Arizona, Feb 2006
- "Detecting Tone and Textual Semantics in the Context of Human Interaction," first place, Undergraduate Student Showcase, Computer Sciences Field, University of Arizona, Nov 2005

¹ Thesis proposal document and presentation available upon request.

² Published under E.Spriggs, now publishing under E.Taralova

- "Detecting Tone and Textual Semantics in the Context of Human Interaction" University of Arizona Undergraduate Honors Research Grant, Mar 2005 Feb 2006
- "Super Achiever Award," International Student Association, University of Arizona, Mar 2005
- "Beyond Silicon Computing Summer School," Caltech, Pasadena CA, June 14th July 9th 2004
- "Flying Robots Capable of Recognizing Man-Made Structures" Undergraduate Honors Research Grant, University of Arizona, Mar 2004 Feb 2005
- Full tuition waiver scholarship from the University of Arizona, Aug 2002 May 2006

OTHER RESEARCH ACTIVITIES

- "Modeling intonation and physiology in emotional conversations" Undergraduate Honors Thesis, advisers: Dr. Kobus Barnard, Dr. Emily Butler, May 2007
- "Predicting emotional experience from autonomic physiology and behavior using machine learning methods" advisers: Dr. Emily Butler, Dr. Kobus Barnard, Aug 2006 Aug 2008
- "Modeling and Visualizing Alternaria" Interdisciplinary Undergraduate Biology Research, advisers: Dr. Barry Pryor, Dr. Kobus Barnard, University of Arizona, May 2005 Aug 2008
- "Eliminating the need of sensors in human-computer interaction in a CAVE" adviser: Dr. Kobus Barnard, June 2005 Aug 2008
- "Efficient Simulation of Stabilizer States Using the Graph State Approach" Caltech Beyond Silicon Summer School, Pasadena, CA, June 14th July 9th 2004, advisers: Dr. Dave Bacon (Caltech), Dr. Isaac Chuang (MIT)
- "Development of an Autonomous Aerial Reconnaissance System" International Aerial Robotics Competition, Fort Benning, GA, June 2003 (Competition best paper), adviser: Dr. Kobus Barnard

OUTREACH AND SERVICE

- Computer Science Department Graduate Student Social Organization leader, Carnegie Mellon University, 2010 present
- Quality of Life Technology Student Council Social Char, Carnegie Mellon, 2011 2012
- Doctoral Review Committee, Computer Science Department, Carnegie Mellon, 2011 2012
- Open House Committee, Computer Science Department, Carnegie Mellon, 2009 2012
- Founder and president of "All for Education" non-profit organization that brings online resources from academia and the community to everyone, 2007 2008
- Wildcat School, Tucson, AZ science lab tours lead, 2006 2008
- University of Arizona College of Science Ambassador, 2005 2007
- Science and Mathematics Education Center volunteer, Tucson, AZ, 2004 2007
- Lunar and Planetary Lab, University of Arizona, Public Outreach Events volunteer, 2004 2007
- "Ouantum and Molecular Computing Club" founder, University of Arizona, 2004 2005
- Boys and Girls Clubs of Tucson, AZ, volunteer, 2003 2007

PROFESSIONAL EXPERIENCE

- Undergraduate Research Assistant, University of Arizona (2004 2005, 2006 2008)
- Systems Support, University of Arizona (2003 2004, 2005 2006)
- Online Generator of 3D mathematical models for fungi from the genus Alternaria using L-systems: http://vision.cs.arizona.edu/taralove/lsystem.html
- Research projects coded in Matlab, C, Perl, PHP, JavaScript, C++