Maksim Levental

Research Associate

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Education

2015 **MS, Computer Science**, *University of Florida*, Gainesville, FL, USA.
project: *Infrastructure development for TUF*
advisor: Joseph Wilson
honors: Magna Cum Laude

2010 **Bachelor of Science, Mathematics**, *Florida State University*, Tallahssee, FL, USA.
honors: Magna Cum Laude; Sigma Pi Sigma; Dean's List

Work experience

2014–present **Research Assistant**, *University of Florida*, Gainesville, FL.
I coordinate and develop the infrastructure for the TUF (Testing Unified Framework) system in the Computational Science and Intelligence Lab. The research mission of the lab is machine learning for purposes of landmine detection for military (Iraq and Afghanistan) and civilian interests (demining in Cambodia, Vietnam, Laos). I designed and implemented a Postgres Database backend for TUF, including a Java-MATLAB interface layer, and ported legacy database functionality (glorified hash table) to make use thereof. I also upgraded and migrated backend services, running on an obsolescent Ubuntu 10.04 server, to a robust, containered (VMs) system.

2011–2013 **Education Peace Corps Volunteer**, *PCUganda*, Mbale, Uganda.
Taught Physics and Mathematics at the O-level and A-level, equivalent to 11-12th grade and college freshmen. Also taught MS Office and Excel to students in ICT (information and communications technology) classes. Maintained and repaired computers and equipment in the WorldBank donated computer lab. Connected local intranet to WorldBank donated on-campus Wifi hotspot by means of a Linksys Tomato flashed router. Trained teachers in computer use, Excel and Office and proprietary lab software, in order to help them incorporate computers into their lesson planning and course design. Designed experiments and learning aids for GirlTech, a summer camp for rural school girls. Specifically a demonstration of a Ruben's tube and water propulsion rockets. General IT and audio/visual (soundboard, projector, PA) maintenance during camp.

2010 **Research Assistant**, *High Performance Materials Institute*, Tallahssee, FL.
LABview programming to facilitate operation of laboratory equipment detailed below (AFM, Scanning electron microscope, gold evaporator). AFM (atomic force microscopy) to perform interface conduction measurements of carbon nanotubes. Acid doping experiments on single-walled nanotubes. Evaporative coating (by gold) of silicone substrate. Weekly presentations/lectures on progress of experiments.

2009 **Research Assistant**, *Center for Advanced Power Systems*, Tallahassee, FL.
Compiled data on dielectrics for capacitors in order to facilitate discharge experiments. RGA (residual gas analysis) for characterization of various dielectrics and further modeling in MATLAB of polarization curves. Boil-off calirometry testing on super-conducting cuprates.

Selected talks

October 2015 *Stochastic Differential Equations and European Options Pricing*, Seminar, University of Florida, Gainesville, Florida

September 2014 *Quantum Computing and Shor's Algorithm*, Seminar, University of Florida, Gainesville, Florida

Honors and awards

2010 Pi Mu Epsilon
2009 Sigma Pi Sigma
2008 Southern Scholarship Foundation
2007 – 2010 Dean's list Florida State University

Technologies/Languages

Java, Python, Postgres, MATLAB, LDAP, Apache, Mathematica, LaTeX

References

Joseph Wilson, jnw@cise.ufl.edu, (352) 514-2191
Arunava Banerjee, arunava@cise.ufl.edu, (352) 505-1556
Scott McKinley, smckinl3@tulane.edu, (504) 862-3426