

KEEN YUUN SUNG

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EDUCATION

University of Massachusetts *Amherst, MA*

Ph.D. candidate in Computer Science (M.S. obtained February 2014)

Advised by Brian Levine

University of Alberta *Edmonton, Canada*

B.Sc. in Computer Science with Honors obtained June 2011

Additional coursework in neuroscience and psychology

WORK AND RESEARCH EXPERIENCE

Research Assistant — Center for Forensics January 2013 – Present

University of Massachusetts *Amherst, MA*

- Identified a method for a server to remotely infer mobile device location during data transfer
- Analyzing the possibility for privacy exploits in CDMA and GSM packets

Data Analytics Intern July 2014 – August 2014

Tyco International *Westford, MA*

- Developed algorithms to elucidate user behavioral patterns and anomalies from access control data

Teaching Assistant September 2011 – December 2012

University of Massachusetts *Amherst, MA*

- Assisted in Computer Literacy and Information Storage courses

Software Developer May 2011 – August 2012

University of Alberta — MedIT *Edmonton, Canada*

- Developed a mobile quiz application that is currently used by medical students at the University of Alberta.

Summer Researcher — Brain Tumor Analysis Project May 2011 – August 2011

University of Alberta — Department of Computer Science *Edmonton, Canada*

- Advised by Russell Greiner
- Used machine learning algorithms to predict tumor growth and prognoses from MRI and CT scans

Research Assistant — SCOPE Neuroscience Lab February 2008 – August 2010

University of Alberta — Department of Psychiatry *Edmonton, Canada*

- Advised by Florin Dolcos
- Designed, implemented, and reported on functional MRI studies of emotion and cognition in humans

PUBLICATIONS

Turning Off GPS is Not Enough: Cellular location leaks over the Internet
Hamed Soroush, Keen Sung, Erik Learned-Miller, Brian Levine, and Marc Liberatore
In *Privacy Enhancing Technologies Symposium 2013*

The power of a handshake: Neural correlates of evaluative judgements in observed social interactions
Sanda Dolcos, Keen Sung, Jennifer Argo, Sophie Flor-Henry, and Florin Dolcos
In *Journal of Cognitive Neuroscience 2012*

Brian imaging investigation of the neural correlates of emotion regulation
Sanda Dolcos, Keen Sung, Ekaterina Denkova, Roger Dixon, and Florin Dolcos
In *Journal of Visualized Experiments 2011*

Brain imaging investigation of the neural correlates of observing virtual social interactions
Keen Sung, Sanda Dolcos, Sophie Flor-Henry, Crystal Zhou, Claudia Gasior, Jennifer Argo, and Florin Dolcos
In *Journal of Visualized Experiments 2011*

The impact of anxiety-inducing distraction on cognitive performance: a cobined brain imaging and personality investigation
Ekaterina Denkova, Gloria Wong, Sanda Dolcos, Keen Sung, Lihong Wang, Nicholas Coupland, and Florin Dolcos
In *PLOS ONE 2010*

WORKSHOP PAPERS

Location Privacy without Carrier Cooperation
Keen Sung, Brian Levine, Marc Liberatore
In *IEEE Workshop on Mobile System Technologies 2014*

AWARDS

PETS Travel Grant (2013)
University of Waterloo Entrance Scholarship (2011 — Declined)
Alberta Heritage Foundation Medical Research Summer Studentship (2009)
Jason Lang Scholarship (2008–2010)
International Baccalaureate Scholarship (2007)
Academic Excellence Scholarship (2007)

TECHNICAL STRENGTHS

Data Analysis	Python/SciPy, MATLAB, R
Web Development	JSP, JavaScript, node.js, PHP, Apache HTTP/Tomcat, AWS
Databases	DB2, MySQL, PostgreSQL
Software Development	Java, C++
Markup	HTML/CSS, L ^A T _E X