Adam Waksman

waksman@cs.columbia.edu (914) 374-3499

Patents

Method for Detecting Sabotage and Malfunction in Microprocessors
>   International patent filed 2011

System and Method for Silencing Hardware Backdoors
>   U.S. patent filed 2012

Professional Experience

CTO, Founder, Epickk, New York, NY (October 2012 – Present)

Software Engineering Intern, Facebook, Palo Alto, CA (June 2011 – August 2011)

Applied Research Mathematician, National Security Agency DSP, Fort Meade, MD (May 2008 – August 2008)

Astrophysics Research Assistant, Columbia University, New York, NY (May 2006 – August 2006)

Conference Publications (Computer Science)

On the Feasibility of Online Malware Detection With Performance Counters. Demme, **Waksman,** Maycock, Schmitz
>   and **Sethumadhavan.** In Proceedings of the International Symposium of Computer Architecture, 2013.

Side-Channel Vulnerability Factor: A Metric for Measuring Information Leakage. Demme, Martin, **Waksman**
>   and Sethumadhavan. In Proceedings of the International Symposium on Computer Architecture, 2012

Silencing Hardware Backdoors. **Waksman** and Sethumadhavan.
>   In Proceedings of the IEEE Symposium on Security and Privacy, 2011

Tamper Evident Microprocessors. **Waksman** and Sethumadhavan.
>   In Proceedings of the IEEE Symposium on Security and Privacy, 2010

Journal Publications (Computer Science and Neuroscience)

A Quantitative, Experimental Approach to Measuring Side-Channel Security. Demme, Martin, **Waksman** and
>   Sethumadhavan. IEEE Micro Top Picks, 2013.

Practical, Lightweight Secure Inclusion of Third-Party Intellectual Property. **Waksman,** Eum and Sethumadhavan.
>   *IEEE Design & Test,* 2013.

*Interactions between L1 cell adhesion molecule and ezrin support traction-force generation and can be regulated
>   by tyrosine phosphorylation*. Sakurai, Gil, Whittard, Gazdoiu, Joseph, Wu, **Waksman**, Benson, Salton
>   and Felsenfeld. Journal of Neuroscience Research, 2008; 86: 2602-2614.

Education

Columbia University – Graduate School of Engineering and Applied Science
>   Ph.D. in computer science (Expected May 2014)
>   M.Phil. in computer science (May 2013)
>   M.S. in computer science (May 2011); Overall GPA: 4.17/4.33

Columbia University – Columbia College
>   B.A. (May 2009); Overall GPA: 3.80/4.33, Magna Cum Laude, Dean's List
>   Majors: Computer Science (GPA: 4.00), Mathematics (GPA: 3.86)
>   GRE Math: 800/800, Subject GRE Computer Science: 850/910
>   Theodore R. Bashkow Outstanding Research Award & C.S. Dept. Academic Excellence Award

Byram Hills High School, Armonk, NY, June 2005; Cum Laude; SAT: 1600/1600

Technical Skills

Software Engineering: C, C++, Java, Python, Common Lisp, Matlab, Bash, Pthreads, OpenMP, Git

Web Back-End Development: .NET, MVC, C#, MySQL

Web Front-End Development: Javascript, jQuery, HTML, CSHTML, CSS3, Photoshop

Hardware Design: Verilog, SystemVerilog, PLI, Synopsys DC, Synopsys ICC

Binary Simulation & Instrumentation: Pin, Zesto, Simics, FeS2