



Jeffrey S. Dvoskin, Ph.D.

Vice President

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Background

Dr. Jeffrey Dvoskin specializes in information security and networking and works as an expert testifier. Dr. Dvoskin leads engagements that help clients manage information security risk and resolve intellectual property matters, including litigation, regulatory matters, and proactive efforts. His work has covered topics such as information and physical security, computer architecture, mobile phones, embedded systems, Internet of Things devices, operating systems, network applications and protocols, and source code analysis. He has testified in court and at deposition in numerous matters, and has submitted expert reports, declarations, and affidavits on behalf of clients.

Dr. Dvoskin has also given numerous presentations on security issues at conferences, including at IEEE GlobeCom and the ACM Conference on Computer and Communications Security.

He was the co-founder of Faradic Internet Services and also worked at numerous tech organizations, including VMware, Hewlett Packard Research Labs, Microsoft, and the Department of Defense Information Security Lab.

Dr. Dvoskin conducted his doctoral research on computer processor design that enhances security for accessing sensitive data.

He received a B.S. in electrical and computer engineering from Rutgers University, an M.A. in electrical engineering from Princeton University, and a Ph.D. in electrical engineering from Princeton University.

Professional Experience

- Aon Corporation, Vice President, 2018 – Present
- Stroz Friedberg, LLC, an Aon company, Director, 2015 – 2018
- Elysium Digital, LLC, Computer Scientist, 2010 – 2015
- Princeton University, PALMS Lab, Research Assistant, 2002 – 2010
- Faradic Internet Services, LLC, Executive Vice President and Co-Founder, 1997 – 2009
- VMware Inc., Summer Intern, 2007
- Princeton University, Department of Electrical Engineering, Spring Semesters, Assistant in Instruction for "Cyber Security" Course, 2005 – 2006
- Hewlett Packard Research Labs, Summer Intern, 2004
- Morgan Stanley, IT Summer Employee, 2002
- Microsoft, Software Development Engineer in Test, Summer Intern, 2001

- Department of Defense, US Army, Information Security Lab, Summer Intern, 2000

Education

- Ph.D., Electrical Engineering, Princeton University, 2010
- M.A., Electrical Engineering, Princeton University, 2004
- B.S., Electrical and Computer Engineering, Rutgers University, 2002

Speaking Engagements

- "Hands on Testing of Mobile Apps for Privacy and Security." Jeffrey S. Dvoskin. Presentation at Mobile Health, Wellness, and Medical: A Privacy Workshop, Holland & Knight Office, Washington, DC, April 2015.
- "Virtualization-Based Testing of Hardware-Software Security Architecture." Jeffrey S. Dvoskin. Presentation at VMworld Academic Summit, Las Vegas, NV, September 2008.
- "Secure Key Management Architecture Against Sensor-Node Fabrication Attacks." Jeffrey S. Dvoskin. Presented at IEEE Global Communications Conference, Washington, DC, November 2007.
- "Hardware-Rooted Trust for Secure Key Management and Transient Trust." Jeffrey S. Dvoskin. Presented at ACM Conference on Computer and Communications Security, Alexandria, VA, October 2007.
- "Scoping Security Issues for Interactive Grids." Jeffrey S. Dvoskin. Presented at Asilomar Conference on Signals, Systems, and Computers, Pacific Grove, CA, November 2003.

Publications

- "Key Management in Sensor Networks." Dahai Xu, Jeffrey Dvoskin, Jianwei Huang, Tian Lan, Ruby Lee, and Mung Chiang. In *Theoretical Aspects of Distributed Computing in Sensor Networks*. Sotiris Nikolettseas and José D.P. Rolim, eds. Springer Verlag, 2011.
- "A Framework for Testing Hardware-Software Security Architectures." Jeffrey S. Dvoskin, Mahadevan Gomathisankaran, Yu-Yuan Chen, and Ruby B. Lee. In *Proc. 26th Annual Computer Security Applications Conference*, December 2010.
- "Securing the Use of Sensitive Data on Remote Devices Using a Hardware-Software Architecture." Jeffrey S. Dvoskin, Ph.D. Dissertation, Princeton University, June 2010.
- "Securing the Dissemination of Emergency Response Data with an Integrated Hardware-Software Architecture." Timothy Levin, Jeffrey S. Dvoskin, Ganesha Bhaskara, Thuy Nguyen, Paul Clark, Ruby B. Lee, Cynthia Irvine, and Terry Benzel. In *Proc. 2nd International Conference on Trusted Computing (TRUST '09)*, April 2009.
- "Overshadow: A Virtualization-Based Approach to Retrofitting Protection in Commodity Operating Systems." Xiaoxin Chen, Tal Garfinkel, E. Christopher Lewis, Pratap Subrahmanyam, Carl A. Waldspurger, Dan Boneh, Jeffrey S. Dvoskin, and Dan R. K. Ports. In *Proc. Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS '08)*, March 2008.

- "Secure Key Management Architecture Against Sensor-Node Fabrication Attacks." Jeffrey Dvoskin, Dahai Xu, Jianwei Huang, Mung Chiang, and Ruby B. Lee. In *Proc. IEEE Global Communications Conference (IEEE GLOBECOM '07)*, November 2007.
- "Hardware-Rooted Trust for Secure Key Management and Transient Trust." Jeffrey S. Dvoskin and Ruby B. Lee. In *Proc. 14th ACM Conference on Computer and Communications Security (CCS '07)*, October 2007.
- "Re-examining Probabilistic Versus Deterministic Key Management." Dahai Xu, Jianwei Huang, Jeffrey Dvoskin, Mung Chiang, and Ruby Lee. In *Proc. IEEE International Symposium on Information Theory (ISIT '07)*, June 2007.
- "Architecture for Protecting Critical Secrets in Microprocessors." Ruby B. Lee, Peter C. S. Kwan, John Patrick McGregor, Jeffrey Dvoskin, and Zhenghong Wang. In *Proc. 32nd International Symposium on Computer Architecture (ISCA '05)*, June 2005.
- "Scoping Security Issues for Interactive Grids." Jeffrey Dvoskin, Sujoy Basu, Vanish Talwar, Raj Kumar, Fred Kitson, and Ruby Lee. In *Proc. 37th Asilomar Conference on Signals, Systems, and Computers*, November 2003.

Patents

- Hardware Trust Anchors in SP-Enabled Processors. Ruby B. Lee and Jeffrey S. Dvoskin. US Patent 9,317,708, filed August 14, 2009, and issued April 19, 2016.

Testimony

- [1] *Comcast Communications, LLC et al. v. Sprint Communications Company L.P. et al.*
U.S. District Court, Eastern District of Pennsylvania, Case No. 2:12-cv-00859
Testified as an expert witness at trial, was deposed, and submitted two expert reports on behalf of Comcast Communications, LLC, TV Works, LLC, and Comcast MO Group, Inc. (represented by Baker & Hostetler) in a patent matter related to mobile messaging systems, 2015, 2016, 2017.
- [2] *MyMedicalRecords, Inc. v. Walgreen Co.*
U.S. District Court, Central District of California, Case No. 2:13-cv-00631
Was deposed and submitted declaration on behalf of Quest Diagnostics, Inc., Allscripts Healthcare Solutions, Inc., WebMD Health Corp., and WebMD Health Services Group, Inc. (represented by Shearman & Sterling) in a patent case related to health care records and processing prescription information, 2014.
- [3] *Straight Path IP Group, Inc. v. Bandwidth.com, Inc.*
U.S. District Court, Eastern District of Virginia, Case No. 1:13-cv-00932
Was deposed and submitted expert report on behalf of Vocalocity, Inc. (represented by Bingham McCutchen) in a patent matter related to VoIP and call routing, 2014.
- [4] *Walgreen Co. v. Lorsch et al.*
United States Patent and Trademark Office, Patent Trial and Appeal Board, Case No. IPR2014-00433
Submitted declaration on behalf of Walgreen Co. (represented by Willenken Wilson Loh & Delgado) in an inter partes review of a software patent related to online maintenance of healthcare records, 2014.

[5] *Comcast IP Holdings I LLC v. Sprint Communications Company LP et al.*
U.S. District Court, District of Delaware, Case No. 1:12-cv-00205
Was deposed and submitted expert reports on behalf of Comcast IP Holdings I LLC (represented by Davis Polk & Wardwell) in a patent dispute involving cell phone networks and networking, 2013, 2014.

Submitted numerous affidavits and declarations.