

## Yan Michalevsky

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Stanford University  
Electrical Engineering  
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- RESEARCH INTERESTS** Computers Security and Systems, Mobile Security and Privacy, Applied Cryptography, Network and Web Security and Privacy.
- EDUCATION**
- Stanford University**  
*PhD*, Electrical Engineering expected June 2017  
*MS*, Electrical Engineering Aug 2014
- Technion - Israel Institute of Technology**  
*B.Sc.*, Electrical Engineering, *Cum Laude* Aug 2010
- Software Engineering, Security and Networks Architecture** 2001  
As part of a military training in IDF intelligence corps
- EXPERIENCE**
- Microsoft Research, Redmond WA** June - Sep. 2015  
*Research Intern*  
Research privacy and mutual authentication over BLE for mobile devices.  
Results published in the proceedings of MobiCom'16.
- Sookasa Inc.** June - Sep. 2013  
*Software Engineering Consultant*  
Sookasa provides security for Dropbox. I developed Sookasa's Android application and a prototype of the virtual encrypted file-system solution for Sookasa's Windows client.
- Software Engineering Contractor** Jan. - Aug. 2012  
*Independent Contractor*  
I was a software developer contractor for Integrity-Project where I developed a Linux driver for a wireless communication product, and for AutoTalks Ltd., where I developed a high-performance testing environment for a wireless protocol on an embedded platform.
- Elite Israeli Intelligence Unit** 2010 - 2012  
*Team Lead*  
Commanded a team of 8 developers working on a wide range of security, networking and operating systems related projects. My responsibilities included project planning, integration with other teams, design and code reviews, and development.
- AcceloWeb Technologies (Limelight Networks)** June - Oct. 2009  
*Software Engineering Contractor*  
Worked on web-browsing acceleration. Implemented Apache extensions, caching solutions and integration of Java code with Apache using JNI.

**Vaorta** 2009  
*VoIP Security Consultant*  
Responsible for analyzing the communication infrastructure of a big financial company and advising on security policy.

**Infosys Technologies, Bangalore, India** Jul. - Oct. 2007  
*Research Intern*  
Participated in InStep, Infosys's global internship program. Done research on high-scale software analysis.

**Digicash Inc.** 2006 - 2007 *Software Engineer*  
A start-up company in the domain of advertisement and micro-payments. Responsible for several projects such as our build and deployment environment, automatic software update framework and digital signature and verification of the products digital cash-notes.

**Elite Israeli Intelligence Unit** 2001 - 2006  
*Software Engineer and Project Lead*  
I worked on real-time software development on embedded platforms, participated in large-scale projects including development of a proprietary compiler, and architected a large subsystem including supervising two other engineers. I was granted an excellence award for my service.

**IDF Intelligence Corps** 2004  
*C++ Instructor*  
Designed a syllabus and gave lectures on C++ over the course of an elite technological military training to 25 trainees.

**PEER-  
REVIEWED  
PUBLICATIONS**

**MASHaBLE: Mobile Applications of Secret Handshakes over Bluetooth LE**

**Yan Michalevsky, Suman Nath and Jie Liu**  
MobiCom 2016  
*Acceptance rate: 14%*

**PowerSpy: Location Tracking using Mobile Device Power Analysis**

**Yan Michalevsky, Gabi Nakibly, Aaron Schulman, Gunaa Arumugam Veerapandian and Dan Boneh**  
USENIX Security 2015  
*Acceptance rate: 15%*

**Gyrophone: Recognizing Speech from Gyroscope Signals**

**Yan Michalevsky, Gabi Nakibly and Dan Boneh**  
USENIX Security 2014  
*Acceptance rate: 19%*

**Extending the Faust VST Architecture with Polyphony, Portamento and Pitch Bend**

**Yan Michalevsky, J.O. Smith and Andrew Best**  
LAC 2014

**Speaker Identification using Diffusion Maps**

**Yan Michalevsky, Ronen Talmon and Israel Cohen**  
EUSIPCO 2011

**Fast H.264 Picture-in-Picture (PIP) Transcoder with B-slices and Direct Mode Support**

**Yan Michalevsky** and Tamar Shoham  
MELECON 2010

**Venus: Verification for Untrusted Cloud Storage**

Alexander Shraer, Christian Cachin, Asaf Cidon, Idit Keidar, **Yan Michalevsky**  
and Dani Shaket  
CCSW 2010

**ADDITIONAL PUBLICATIONS**    **Mobile Device Identification via Sensor Fingerprinting**  
Hristo Bojinov, **Yan Michalevsky**, Gabi Nakibly and Dan Boneh  
*Technical report*

**UNDER SUBMISSION**        **Privately Finding Common Friends of Friends in Social Networks**  
Dan Boneh, **Yan Michalevsky**, Marc Joye and Nicko van Someren

**Securing MapReduce with Trusted Quorums**  
**Yan Michalevsky**, Valeria Nikolaenko and Dan Boneh

**SELECTED TALKS**            **MASHaBLE: Mobile Applications of Secret Handshakes over Bluetooth LE**

MobiCom 2016  
Security Seminar at Columbia University  
To be presented at Black Hat Conference Asia (Mar. 2017)

**Securing Distributed Computation via Trusted Quorums**  
Systems Seminar at Hebrew University

**Eavesdropping, Location Tracking and Other Side-Channels on Mobile Devices**  
CyberTech 2016, Tel Aviv

**PowerSpy: Location Tracking using Mobile Device Power Analysis**  
USENIX Security 2015  
Stanford Annual Security Workshop 2015  
Bay Area Security Research Summit 2015

**Side-Channel in the 21st Century: Information Leakage from Smartphones**  
RSA Conference US 2015

**Side-Channel Attacks on Mobile Devices**  
Cryptography Research Inc., Dec. 2016  
Qualcomm Research, Feb. 2015  
UIUC CSL Student Conference 2015

**Gyrophone: Recognizing Speech from Gyroscope Signals**  
USENIX Security 2014  
Black Hat Conference EU 2014

**SELECTED  
PRESS  
COVERAGE**

[Wired.com](#) — Spies Can Track You Just by Watching Your Phones Power Use  
[BBC.com](#) — Battery power alone can be used to track Android phones  
[KQED TV](#) — Interview about PowerSpy  
[Wired.com](#) — The Gyroscopes in Your Phone Could Let Apps Eavesdrop on Conversations  
[SFGate](#) — Stanford researchers discover ‘alarming’ method for phone tracking, fingerprinting through sensor flaws

**AWARDS**

Qualcomm Innovation Fellowship Finalist 2017  
Sohnis Promising Scientist Award  
Technion’s Excellence Program - full scholarship  
Technion EE Dean’s Honors List  
Excellence Award for Military Service

**REFERENCES**

**Dan Boneh**

Professor of Computer Science and Electrical Engineering, Stanford University  
dabo@cs.stanford.edu

**Aaron Schulman**

Assistant Professor of Computer Science at University of California, San Diego  
schulman@cs.ucsd.edu

**Gabi Nakibly**

Fellow at Rafael National Research and Simulation Center and Senior Adjunct Lecturer at the Technion Computer Science Department  
gnakibly@cs.technion.ac.il

**Marc Joye**

NXP Fellow, Security Technologist at NXP Semiconductors  
marc.joye@nxp.com

**Suman Nath**

Principal Researcher, Microsoft Research, Redmond WA  
suman.nath@microsoft.com