KfirLev-Ari
PhD student

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Languages
Hebrew mother tongue
English fluency
Hungarian basic
German basic

Programming
♥ Go, Java,
Python, JavaScript,
C, C#, PHP

Education

2013–Now	**Doctor** of Philosophy	EE Department, Technion, Israel

Developing a methodology for proving correctness of concurrent algorithms, and examining implications on distributed systems.
Under the supervision of Prof. Idit Keidar. GPA 95.

2006–2010	**Bachelor** of Science	CS Department, Technion, Israel

Software Engineering, GPA 87.

Experience

2015	**Google**	Mountain View, CA, USA

Summer Research Intern, Distributed Storage Analytics group
Working on large scale load-balancing.

2014	**Yahoo! Labs**	Haifa, Israel

Summer Research Intern
Scaling distributed systems while maintaining their semantics.
Focusing on ZooKeeper and its internals.

2013–Now	**TA and Lab Tutor**	CS and EE Departments, Technion, Israel

Teaching Computer Security, Java and Android. Supervised several projects focused on cutting-edge technologies.

2011-2013	**Wanova (acquired by VMWare)**	Netanya, Israel

Software Engineer
R&D of Mirage client-side – a cloud-based solution for managing Windows machines. Intensive work with Windows internals.

2009-2011	**Zoran (acquired by Qualcomm)**	Haifa, Israel

RT/Embedded Software Engineer
Developing drivers on top of heterogeneous architecture, as well as supporting customer integrations.

2009	**Laboratory of Computational Biology**	CS Department, Technion, Israel

Software Developer
Developing Superlink Online.

Awards

2014	**Faculty Persistent Excellent TA**	CS Department, Technion
2013	**Faculty Excellent TA**	CS Department, Technion
2006-2010	**Awards for Excellence**	CS Department, Technion

Multiple Technion President awards for excellence (Summa Cum Laude), multiple Computer Science Dean awards for excellence (Cum Laude).

Publications

International peer-reviewed conferences

Modular Composition of Coordination Services
 Kfir Lev-Ari, Edward Bortnikov, Idit Keidar, Alexander Shraer
 2016 USENIX Annual Technical Conference (USENIX ATC 16), 2016, Denver, CO

A Constructive Approach for Proving Data Structures' Linearizability
 Lev-Ari Kfir, Chockler Gregory, Keidar Idit
 Proceedings of the 29th International Conference on Distributed Computing, 2015, Tokyo, Japan

On Correctness of Data Structures under Reads-Write Concurrency
 Lev-Ari Kfir, Chockler Gregory, Keidar Idit
 Proceedings of the 28th International Conference on Distributed Computing, 2014, Austin, Texas

Patents

Fast provisioning of a centralized virtual desktop using linked clones
 I.Z. Ben-Shaul, T. Zamir, L. Vasetsky, G. Yogev, K. Lev-Ari
 US Patent App. 13/732,312, 2013

Independent synchronization of virtual desktop image layers
 I.Z. Ben-Shaul, T. Zamir, L. Vasetsky, G. Yogev, K. Lev-Ari
 US Patent App. 13/732,320, 2013

Device dependent rules for synchronizing desktop images and managing hardware dependencies
 I.Z. Ben-Shaul, T. Zamir, L. Vasetsky, G. Yogev, K. Lev-Ari
 US Patent App. 13/732,317, 2013

N-way synchronization of desktop images
 I.Z. Ben-Shaul, T. Zamir, L. Vasetsky, G. Yogev, K. Lev-Ari
 WO Patent App. PCT/US2012/072,342, 2013

Professional Interests

Distributed systems, concurrent data-structures, parallel computing, correctness criteria.