

Curriculum Vitae -Elkana Baris

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Education:

2014-current: **M.Sc. (Graduate) Studies toward a degree in Computer Sciences, The Hebrew University of Jerusalem, Israel (HUJI).**

Advisor: Dr. Or Tzuk, Subject: Graphical models, Machine learning, Bioinformatics.

2011-2014: **B.Sc. Studies toward a degree in Computer Sciences and Computational Biology (Honors program), HUJI.**

(Israeli SAT grade-752, top 1%).

Professional Experience:

2015-current: **T.A. - Operating Systems Course, HUJI.**

2015 spring semester Operating Systems course **frontal** T.A.

Some of the covered subjects: Virtualization, Scheduling, Processes, Threads, Memory Management, File Systems and more.

Designed exercises: User-level threads (*Scheduling*) and POSIX threads (*Bitcoin Blockchain*).

2015-current: **Research Student at Dr. Or Tzuk's lab, HUJI.**

Decomposed learning of constraints within structured data.

Finding topology in graphical models using the learned features. [*ongoing*]

2014-2015: **Research Student at Prof. Nir Friedman's lab, HUJI.**

Building a flexible framework for running computational experiments, efficiently.

Modelling and inference of multiple states biological system.

Simulating and estimating the dynamics the experimented system..

2013-2014: **Research Assistant of Dr. Tommy Kaplan, Computational Biology, HUJI.**

building a fast and efficient algorithm for big data (~200 GB) processing, analysis and statistical noise modeling. (Used: Python and C++).

Courses and relevant knowledge:

- Machine Learning, Computational Biology algorithms, Optimization,, Operating Systems, Object oriented programming, Data Bases, Algorithms development, Complexity and efficiency.
- Programming languages: Python, Java, C, C++, SQL, PostgreSQL, Shell script, MATLAB, Android development.

Fellowships:

The Rothschild Ambassadors Fellowship, Rothschild-Caesarea Foundation:

- A unique three-years fellowship for excellent students with full stipend. focuses on leadership development. Managed and executed two innovative projects based on a quantified and qualified research in Jerusalem.

Army Service:

2006-2008: Served as a troop and instructor in an IDF Special Forces unit.