Elkana Baris

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Education:

2014-current: **M.Sc. (Graduate) Studies in Computer Science (Machine Learning) , The Hebrew University of Jerusalem, Israel (HUJI).**

Advisor: Prof. Or Zuk.

Subject: Learning Soft-Constraints For POS Tagging Using Structure Learning.
Using structure learning algorithms to induce latent variables in the model. The latent variables combine global and local Markov Random Fields in order to force agreement between the models. (Using: Python, PyData stack, open source contribution.) [*ongoing*]

2011-2014: **B.Sc. Studies in Computer Sciences and Computational Biology (Honors program), The Hebrew University of Jerusalem, Israel (HUJI).**
(Israeli SAT score: 752, top 1%)

Professional Experience:

2016-2017: **Algorithm Engineer at Mobileye (now an Intel company).**
Developing Deep Learning models for object detection in real-world scenarios.
Significantly improving the detection system, as a part of the Detection Team.
Taking care of the full Machine Learning scheme, from data manipulation through models training and classifiers evaluation and their deployment. (Using: PyData stack, TensorFlow, C++)

2016-2017: **Data Scientist Intern at Imubit ltd.**
Building proprietary Deep-Learning infrastructure, and using it to conduct algorithmic Deep-Learning research. (Using: PyData stack, TensorFlow.)

2016: **Data Scientist at Cisco ltd.**
Building and deploying Machine Learning models in a distributed environment, Mainly focusing on Adversarial Machine Learning: Anomaly Detection, Classification and User Modeling. (Using: PyData stack, Spark stack.)

Research Projects:

2014-2015: **Research project with Prof. Nir Friedman, Computational Biology, HUJI.**
Building a flexible framework for running computational experiments efficiently.
Modeling and inference of a multiple states biological system.

2013-2014: **Research project with Dr. Tommy Kaplan, Computational Biology, HUJI**.
Building a fast and efficient algorithm for big data (~200GB) processing, analysis and noise modeling. (Using: Python and C++)..

Teaching Assistant:

2016(spring): **Introduction to Machine Learning, HUJI.**
Coordinating programming projects, writing automated tests suites, oral exams, student consultations.

2015(spring): **Operating Systems Course, HUJI**.
Lectured on: Virtualization, Scheduling, Processes, Threads, Memory Management, File Systems and more.
Designed exercises: User-level threads (*Scheduling*) and POSIX threads (*Bitcoin Blockchain Manager*).

Fellowships:

The Rothschild Ambassadors Fellowship, Rothschild-Caesarea Foundation:
A unique three-year fellowship, with full stipend, for outstanding students. Focuses on leadership development. Managed and executed innovative social projects.