Ori Ernst
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Name: Ori Ernst
Address: 25 Harav Yeshayahu Meshorer St. Petah Tikva
Date of birth:23.12.89
ID: 200955367
Marital status: married+2

Education

2019-present: Ph.D. in Electrical Engineering (in collaboration with computer science department), Bar Ilan University.

- Advisors: Prof. Ido Dagan & Prof. Jacob Goldberger
- Topic: **Multi-document summarization via information unit alignment**

2016-2018: M.Sc. (with Thesis) in Electrical Engineering with specialization in Data Science, Bar Ilan University.

- Advisors: Prof. Jacob Goldberger & Prof. Sharon Gannot
- Topic: **Speech dereverberation using fully convolutional networks**
- Graduate **magna cum laude** with **94 average**.
- Combining signal processing with state-of-the-art deep learning methods.
- Achieved state-of-the-art results.
- Thesis was implemented in python (Tensorflow).

2012-2016: B.Sc. Degree in electrical engineering, **Bar Ilan University.**

- Specializations: Signal Processing and Electro-Optic
- Graduate **summa cum laude** with **95.7 average**.
- Final degree project: "Multiple Speaker Localization and Tracking in the Presence of Unreliable Microphones" based on the EM algorithm. Implemented in MATLAB.

2007-2011: Yeshivat Hesder Kiryat Shemona, Jewish seminary, including army service.

2002-2007: High school

- **Graduated summa cum laude** with 2 majors: Physics and Computer Science.
- Academic course at Bar Ilan University **during high school**, after finishing early Math Matriculation as part of "The Program for Talented Youth in Mathematics"

Publications

- Ori Ernst, Ori Shapira, Ramakanth Pasunuru, Michael Lepioshkin, Jacob Goldbereger, Mohit Bansal, Ido Dagan, "Document-Summary Span Alignment Dataset for Multi-Document Summarization", 2020 Association for Computational Linguistics (ACL). [still under review]

- Ori Ernst, Shlomo E. Chazan, Sharon Gannot and Jacob Goldberger, "Speech Dereverberation Using Fully Convolutional Networks," *2018 26th European Signal Processing Conference (EUSIPCO)*.
- Lev Faivishevsky, Ori Ernst and Amitai Armon, "Time series processing for software failure prediction in deep learning training," *2017 Time Series Workshop in International Conference on Machine Learning (ICML)*

Honors and Awards

- **2019:** Bar Ilan University, The President's Scholarship for Outstanding PhD Candidates.
- **2013-2014:** Bar Ilan University, Faculty of Engineering. Dean's List.
- **2012-2013:** Bar Ilan University, Faculty of Engineering. Rector's List.
- **2012-2016:** Member in the "HaNivcharim" program- Bar Ilan University's excellent students

program.

Employment Experience

2016-present: Teaching Assistant at Bar Ilan University

- Logic systems (TA + Lecturer)
- Introduction to machine learning (TA)
- Random signals and noise (TA)

2016-2019: Data Scientist at Intel (student position)

- Develop and research deep learning, machine learning and other statistical methods.
- Develop deep learning tool for external usage.
- Improve Intel production processes by finding efficient and quick ways to early failure detection.
- Work on computer vision tasks, using both classical image processing and deep learning methods. Including: image classification, image detection, etc.
- Develop anomaly detection for time series methods.
- Implementation in Python.

2014-2016: Firmware designer engineer at Mellanox.(student position)

- Develop chips' peripheral area, including: detection of cable insertion, handling shorted cables, GPIOs etc.
- In charge of integration between firmware and other groups in Mellanox during Bring Up process (arrival of new boards).
- Implementation in C.
- Self-learning of new programming language –tcl. Using it for scripts implementation.

Military Service

Soldier and commander in Armored Corps

- Commanding and leading soldiers during training course.
- Proven ability to advance processes quickly, work well under pressure.
- **Excellent regiment gunner award**

Programming languages and courses

- Academic courses: C, Data Structures, Object Oriented (C++), python (including scikit-learn, keras, tensorflow, dynet, etc.).
- 2 years of experience with C and 3.5 years of python.
- MATLAB experience- including final B.Sc. project implementation.
- Proven Self learning ability of new languages.(Such as tcl)

Languages

English: very good **Hebrew**: native speaker