Maxwell Tsai

Computer Vision & Deep Learning Engineer

ACHIEVEMENTS

- **Spotlight Presentation**² MICCAI LABELS Workshop, 2020
- Spotlight Presentation¹ MIDL Conference, 2020
- Magna Cum Laude Tel Aviv University, 2015-2019
- Accelerated MS.c. Track Tel Aviv University, 2018-2020
- Rank of Excellence (2nd Place) Intel ISEF Competition China, 2014

RESEARCH PROJECTS

Researcher @ Sheba Medical Center, April 2018-September 2020

- Lead the development of a COVID-19 lung CT screening system in Sheba (currently undergoing pilot tests)
- Developed an automated knee MRI diagnosis algorithm (tested by the Head Radiologist of the MSK Department)
- Implemented a text analytics algorithm for labeling breast MRI reports written in Hebrew and English

Java Face, 2013-2014

- Implemented a facial recognition system on Java (non-existent at the time)
- Achieved 2nd place in the 2014 Intel ISEF with 60+ competitors from across China

PUBLICATIONS

¹Knee Injury Detection using MRI with Efficiently-Layered Network (ELNet)
²Labeling of Multilingual Breast MRI Reports

EDUCATION

Tel Aviv University — *Masters of Science*, 2018–2020 Supervised by Prof. Nahum Kirvati and Dr. Arnaldo Mayer

Electrical and Electronics Engineering GPA: 90

Tel Aviv University — Bachelor of Science, 2015-2019

Electrical and Electronics Engineering GPA: 92

M.Sc. Courses

- Advanced Topics in Machine Learning
- Computer Vision
- Natural Language Processing
- Statistical Machine Learning
- Optimization
- Digital Processing of Single and Multi-Dimensional Signals
- Design and Analysis of Algorithms

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RESEARCH EXPERIENCE

- · Computer Vision
- · Natural Language Processing
- · Generative Models (Images)
- · Supervised Learning
- · Weakly Supervised Learning
- · Semi-Supervised Learning
- · Knowledge Distillation

DEV RECORD

Current:

- · Python
- · PyTorch
- Tensorflow
- · MATLAB

Past:

- \cdot C
- · C++
- · Java (AP certified)
- · Adobe ActionScript
- · Objective-C
- · Processing
- · Arduino
- \cdot HTML

ONLINE COURSES

- · CS231N Stanford
- · Machine Learning
- · Fundamentals of Digital Image & Video Processing

LANGUAGES

- · English (proficient)
- · Chinese (mother tongue)