# Maxwell Tsai

Computer Vision & Deep Learning Researcher

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https://mxtsai.github.io/

## ACHIEVEMENTS

- **Spotlight Presentation**[2] – MICCAI LABELS Workshop, 2020
- **Spotlight Presentation**[1] – MIDL Conference, 2020
- **Magna Cum Laude –** Tel Aviv University, 2015-2019
- **Accelerated MS.c. Track –** Tel Aviv University, 2018-present
- **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

[1]*Knee Injury Detection using MRI with Efficiently-Layered Network (ELNet)*

[2]*Labeling of Multilingual Breast MRI Reports*

## EDUCATION

### Tel Aviv University — *Masters of Science,* 2018-2020
*Supervised by Prof. Nahum Kiryati 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**

## RESEARCH EXPERIENCE
· Computer Vision
· Natural Language Processing
· Supervised Learning
· Weakly Supervised Learning
· Semi-Supervised Learning

## DEV RECORD

**Current**:
· Python
  · PyTorch
  · Tensorflow
· MATLAB

**Past :**
· C
· C++
· Java (AP certified)
· Adobe ActionScript
· Objective-C
· Processing
· Arduino
· HTML

## ONLINE COURSES

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

## LANGUAGES

· English (proficient)
· Chinese (mother tongue)