

Daniel Shats

danielshats1@gmail.com | github | linkedin | Google Scholar | kaggle | flickr

Education

Technion – Israel Institute of Technology

M.Sc. WITH THESIS IN COMPUTER SCIENCE, FINAL GRADE: 94/100

Haifa, Israel

Oct. 2020 – Oct. 2022

University of Florida

B.S. IN COMPUTER SCIENCE & MATHEMATICS (DOUBLE MAJOR), GPA: 3.5/4.0

Gainesville, FL

Aug. 2016 – Dec. 2019

Experience

Wayve AI

MACHINE LEARNING ENGINEER – EMBODIED AI

Bay Area, California

July 2024 – Present

- Owner of our End to End driving model.
- Led significant improvements to the driving model performance and behavior.
- Research in sensor fusion, data cleaning, and training infrastructure.
- Saved millions of dollars by making training more efficient (via offloading work to flyte jobs and training optimizations).

IBM Research

RESEARCH SCIENTIST – FULL TIME

Tel Aviv, Israel

Oct. 2022 – May 2024

- Contributor to the open source Multimodal AI framework – FuseMedML.
- Research in Deep Learning for protein folding and drug discovery.

RESEARCH INTERN

Jul. 2021 – Oct. 2021

- Won 2nd place in Kits21 3D Kidney Disease Segmentation Competition.
- “Best Paper” award in MICCAI 2021.

RESEARCH INTERN

Feb. 2020 – Jul. 2020

- Created a public database of government countermeasures against COVID-19.
- Published in Nature Scientific Data.

CDM Smith

ML ENGINEERING INTERN

Boston, MA

Jun. 2019 – Jan. 2020

- Delivered a computer vision car detection and tracking model using YOLOv3 and deepsort.

UF Machine Learning and Sensing Lab

UNDERGRADUATE RESEARCH ASSISTANT

Gainesville, FL

Jan. 2019 – Dec. 2019

- Multiple Instance Learning for electromagnetic & hyperspectral data.
- Published in IEEE Transactions.

Select Publications

Momentum Contrast Learning and Group Patch Embeddings for MSA Classification

ECCV 2022

DANIEL SHATS, HADAR HEZI, GUY SHANI, YE MARUVKA, MOTI FREIMAN

Ensemble of 3D U-Nets for segmentation of kidney and masses in CT scans

MICCAI 2021

ALEX GOLTS, DANIEL KHAPUN, DANIEL SHATS, YOEL SHOSHAN, FLORA GILBOA-SOLOMON

AI Tracking of Worldwide Non-pharmaceutical Interventions for COVID-19

Nature Scientific Data 2021

PARTHASARATHY SURYANARAYANAN, CHING-HUEI TSOU, ... DANIEL SHATS ... MICHAL ROSEN-ZVI

Projects

Android & iOS app hot_budr

- Made an app with 500+ downloads on Apple App Store and Google Play Store. Built with Flutter and Firestore.

Kaggle Competitions Expert

- Top 9% in the APTOS Blindness Detection Challenge.
- Top 10% in the CAFA 5 Protein Function Prediction Challenge.
- Top 11% in the LLM – Detect AI Generated Text Challenge.

WORK AUTHORIZATION: US CITIZEN