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 | <https://nivha.github.io>*Ph.D., Computer Science, 2023*

Weizmann Institute

Advisor: Prof. Michal Irani

M.Sc., Computer Science, 2018

Weizmann Institute

Advisor: Prof. Boaz Katz

B.Sc., Computer Science & Physics, 2015

Technion

Lapidim Excellence Program (*Cum Laude*)

Publications

Preprint

Reconstructing Training Data From Real-World Models Trained with Transfer Learning

Y. Oz, G.Yehudai, G.Vardi, I. Antebi, M.Irani, N.Haim**NeurIPS 2023**

Deconstructing Data Reconstruction: Multiclass, Weight Decay and General Losses

G.Buzaglo*, N.Haim*, G.Yehudai, G.Vardi, Y. Oz, Y. Nikankin, M.Irani.**ICML 2023**

SinFusion: Training Diffusion Models on a Single Image or Video

Y.Nikankin*, N.Haim*, M.Irani.**NeurIPS 2022 [Oral]**

Reconstructing Training Data from Trained Neural Networks

N.Haim*, G.Vardi*, G.Yehudai*, O.Shamir, M.Irani.**ECCV 2022**

Diverse Generation from a Single Video Made Possible

N.Haim*, B.Finestein*, N.Granot, A.Shocher, S.Bagon, T.Dekel, M.Irani.**ICML 2020**

Implicit Geometric Regularization for Learning Shapes

A.Gropp, L.Yariv, N.Haim, M.Atzmon, Y.Lipman.**NeurIPS 2019**

Controlling Neural Level Sets

M.Atzmon, N.Haim, L.Yariv, O.Israelov, H.Maron, Y.Lipman.**ICCV 2019**

Surface Networks via General Covers

N.Haim*, N.Segol*, H.Ben-Hamu, H.Maron, Y.Lipman.**MNRAS 2018**

Extreme close approaches in hierarchical triple systems with comparable masses

N.Haim, Boaz Katz.

Technical Report

From Discrete to Continuous Convolution Layers

A.Shocher*, B.Finestein*, N.Haim*, M.Irani.

Experience

AI Researcher, Mobileye**2024 -**

Autonomous Driving Research at the CTO Machine Learning Innovation Team

Postdoctoral Fellow, Weizmann Institute of Science**2023 - 2024**

Research on Generative AI (e.g., large language models and diffusion models)

Freelance Lecturer**2019 - 2024**

I teach courses on Machine and Deep Learning, Generative AI, Image Processing, Python, MATLAB etc.

in collaboration with education providers: DART, Y-Data, Primrose, and SagivTech.

Backend Developer, Tonara**2011 - 2014**

Developed tools for image processing and data analysis for musical applications (e.g., parsing music sheets and music notations), tools for user analytics, server-client communication and servers maintenance (AWS).

Research Assistant, Hebrew University**Spring 2015**

Applied machine learning in NLP - text analysis of news articles e.g., topic modeling, sentiment analysis

Team Leader, IDF**2007 - 2010**

Managed a team of analysts and coordinated between multiple organizations.

“Mekor Haim” Award for outstanding, professional excellence.

Teaching and Academic Service

TA: Advanced Topics in CV and DL [2020-2023], Deep Learning for Computer Vision [2021-2022]
Deep Neural Networks - a Hands-On Challenge [Spring 2017].

Reviewer: CVPR (2022, 2023), NeurIPS (2023), ICCV (2023), ICML (2024).

Recorded Talks: [Microsoft DS Seminar \(2022\)](#), [Tutorial on Adversarial Examples \(2024\)](#)

Invited Talks

05.07.23 Tel Aviv University ML/CV Seminar, Invited by Prof. Shai Avidan
22.05.23 Talk at Trigo Vision, Invited by Hadar Gorodissky
24.04.23 Talk at General Motors, Invited by Dr. Shaul Oron
16.01.23 Israel Computer Vision Day, Hosted by Prof. Shai Avidan [[Recording](#)]
20.12.22 Microsoft Data Science Bond (DSBond) [[Recording](#)]
06.12.22 Talk at Google NYC, Invited by Dr. Daniel Glasner
13.11.22 Hebrew University of Jerusalem (HUJI), Invited by Prof. Shmuel Peleg
31.08.22 Machine Learning Seminar at Healthy.io. Invited by Sivan Biham
27.03.22 Hebrew University of Jerusalem (HUJI), Invited by Prof. Shmuel Peleg
06.05.21 Intro to Adversarial Examples at Weizmann DL4CV course WIS
17.12.17 Israel Physical Society Conference 2017. Hosted by Prof. Hagai Perets