


(+972) 058-5599200

nivhaa@gmail.com

 | <https://nivha.github.io>

<i>Ph.D., Computer Science, 2023</i> Weizmann Institute Advisor: Prof. Michal Irani	<i>M.Sc., Computer Science, 2018</i> Weizmann Institute Advisor: Prof. Boaz Katz	<i>B.Sc., Computer Science & Physics, 2015</i> Technion Lapidim Excellence Program (<i>Cum Laude</i>)
---	--	---

Publications

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.Segal*, 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

Postdoctoral Fellow, Weizmann Institute of Science **2023 -**
Reserach on Generative AI (e.g., large language models and diffusion models)

Freelance Lecturer **2019 -**
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