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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

<i>Preprint</i>	Reconstructing Training Data from Real-World Models Trained with Transfer Learning Y. Oz, G.Yehudai, G.Vardi, I. Antebi, M.Irani, <u>N.Haim</u>
NeurIPS 2023	Deconstructing Data Reconstruction: Multiclass, Weight Decay and General Losses G.Buzaglo*, <u>N.Haim</u> *, G.Yehudai, G.Vardi, Y. Oz, Y. Nikankin, M.Irani.
ICML 2023	SinFusion: Training Diffusion Models on a Single Image or Video Y.Nikankin*, <u>N.Haim</u> *, M.Irani.
NeurIPS 2022 [Oral]	Reconstructing Training Data from Trained Neural Networks <u>N.Haim</u> *, G.Vardi*, G.Yehudai*, O.Shamir, M.Irani.
ECCV 2022	Diverse Generation from a Single Video Made Possible <u>N.Haim</u> *, B.Finestein*, N.Granot, A.Shocher, S.Bagon, T.Dekel, M.Irani.
ICML 2020	Implicit Geometric Regularization for Learning Shapes A.Gropp, L.Yariv, <u>N.Haim</u> , M.Atzmon, Y.Lipman.
NeurIPS 2019	Controlling Neural Level Sets M.Atzmon, <u>N.Haim</u> , L.Yariv, O.Israelov, H.Maron, Y.Lipman.
ICCV 2019	Surface Networks via General Covers <u>N.Haim</u> *, N.Segol*, H.Ben-Hamu, H.Maron, Y.Lipman.
MNRAS 2018	Extreme Close Approaches in Hierarchical Triple Systems with Comparable Masses <u>N.Haim</u> , Boaz Katz.
Technical Report	From Discrete to Continuous Convolution Layers A.Shocher*, B.Finestein*, <u>N.Haim</u> *, M.Irani.

Experience

AI Researcher Mobileye	2024 -
Researching autonomous driving 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
Taught courses on Machine Learning 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 server 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