


# Niv Haim

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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

- 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

- 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 server maintenance (AWS).
- Research Assistant**, Hebrew University **Spring 2015**  
Applied machine learning for 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](#), [Tutorial on Adversarial Examples](#)

## Invited Talks

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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