

CONTACT	Cell: (+972) 058-5599200 Email: nivhaa@gmail.com Homepage: https://nivha.github.io
RESEARCH INTERESTS	Machine and Deep Learning, Computer Vision, Generative Models, Physics for ML
EDUCATION	<div> Weizmann Institute of Science, Rehovot, Israel 04.2018 - 04.2023[†] Ph.D. Student, Computer Science and Applied Math Advisor: Prof. Michal Irani </div> <div> Weizmann Institute of Science, Rehovot, Israel 10.2015 - 01.2018 M.Sc., Computer Science and Applied Math Advisor: Prof. Boaz Katz (Department of Astrophysics) </div> <div> Technion, Haifa, Israel 10.2011 - 10.2015 B.Sc., Computer Science. B.Sc., Physics Lapidim excellence program[‡] </div>
PUBLICATIONS	<p>[1] “SinFusion: Training Diffusion Models on a Single Image or Video”, Y.Nikankin*, <u>N.Haim</u>*, M.Irani. Under review 2022</p> <p>[2] “Reconstructing Training Data from Trained Neural Networks”, <u>N.Haim</u>*, G.Vardi*, G.Yehudai*, O.Shamir, M.Irani. NeurIPS 2022; Oral</p> <p>[3] “Diverse Generation from a Single Video Made Possible”, <u>N.Haim</u>*, B.Finestein*, N.Granot, A.Shocher, S.Bagon, T.Dekel, M.Irani. ECCV 2022</p> <p>[4] “From Discrete to Continuous Convolution Layers”, A.Shocher*, B.Finestein*, <u>N.Haim</u>*, M.Irani. Technical Report 2020</p> <p>[5] “Implicit Geometric Regularization for Learning Shapes”, A.Gropp, L.Yariv, <u>N.Haim</u>, M.Atzmon, Y.Lipman. ICML 2020</p> <p>[6] “Controlling Neural Level Sets”, M.Atzmon, <u>N.Haim</u>, L.Yariv, O.Israelov, H.Maron, Y.Lipman. NeurIPS 2019</p> <p>[7] “Surface Networks via General Covers”, <u>N.Haim</u>*, N.Segol*, H.Ben-Hamu, H.Maron, Y.Lipman. ICCV 2019</p> <p>[8] “Extreme close approaches in hierarchical triple systems with comparable masses”, <u>N.Haim</u>, Boaz Katz. Monthly Notices of the Royal Astronomical Society 2018</p>

[†]Expected.[‡]Technion CS department excellence program for first-rate computer science students with the potential for leadership or entrepreneurial pursuits (5 accepted students each year).

*Denotes equal first author.

HONORS AND AWARDS	Hurvitz Scholarship, 2022	
	Technion: graduated Cum Laude, 2015	
	DAAD Scholarship for intensive German course 2015	
	Technion AI Course Multi-Agent Competition 1 st Place, 2013	
	IDF: “Mekor Haim” award for outstanding professional excellence, 2010	
TEACHING (WIS)	Deep Learning for Computer Vision	Winter 2022-2023
	Advanced Topics in Computer Vision and Deep Learning	Spring 2021-2022
	Deep Learning for Computer Vision	Winter 2021-2022
	Advanced Topics in Computer Vision and Deep Learning	Spring 2020-2021
	Deep Neural Networks - a Hands-On Challenge	Spring 2016-2017
INVITED TALKS	16.01.23 Israel Computer Vision Day, Hosted by Prof. Shai Avidan	
	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	
EMPLOYMENT HISTORY	17.12.17 Israel Physical Society Conference 2017. Hosted by Prof. Hagai Perets	
	Primrose , Lecturer	07.2021 - on
	Machine and Deep Learning Course	
	SagivTech , Lecturer	09.2019 - 10.2020
	Introduction courses on Deep Learning, Image Processing and Matlab	
	Hebrew University , Research Assistant	03.2015 - 08.2015
	Developed machine learning tools for analysis of political discourse	
	Tonara , Backend Developer	05.2011 - 03.2014
	Developed data/image processing tools for musical applications	
	IDF , Team Leader	12.2007 - 03.2010
	Managed analysts team and coordinated between multiple organizations	