

ASSAF SINGER

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EDUCATION

TECHNION - ISRAEL INSTITUTE OF TECHNOLOGY , Taub Faculty of Computer Science <i>Doctor of Philosophy in Computer Science, Advised by Dr. Or Litany</i>	September 2024 – Present GPA: 100
• Research proposal: “Reconstruction and Manipulation of 4D Scenes for Next-Generation Autonomous Systems”.	
NEW YORK UNIVERSITY , Courant Institute of Mathematical Sciences <i>Master of Science in Computer Science, Advised by Prof. Kyunghyun Cho and Prof. Katharina Kann</i>	May 2020 GPA: 3.8
• Thesis: “Transformer and Pointer-generator Model for Morphological Inflection”. Final grade: 4.0/4.0.	
TEL AVIV UNIVERSITY , School of Mathematical Sciences <i>Bachelor of Science in Mathematics</i>	July 2013 GPA: 88
• Completed degree during high school as part of the "Beno Arbel Program for Gifted Youth in Mathematics".	

PUBLICATIONS

A. Singer , N. Rotstein, A. Mann, R. Kimmel, O. Litany. “Time-to-Move: Training-Free Motion Controlled Video Generation via Dual-Clock Denoising”. ICLR 2026. Also accepted at the ICLR 2026 ReALM-GEN and CVPR 2026 J2A Workshops. Project page	
N. Tumanyan*, A. Singer* , S. Bagon, T. Dekel (* equal contribution) “DINO-Tracker: Taming DINO for Self-Supervised Point Tracking in a Single Video”. ECCV 2024. Project page	
A. Singer , K. Kann “The NYU-CUBoulder Systems for SIGMORPHON 2020 Task 0 and Task 2”. 17th SIGMORPHON Workshop, ACL 2020	

RESEARCH EXPERIENCE

TECHNION - ISRAEL INSTITUTE OF TECHNOLOGY , Taub Faculty of Computer Science <i>PhD Researcher, Advised by Dr. Or Litany</i>	September 2024 – Present
• Researching controllable video generation and 4D scene understanding, with a focus on reconstruction, interaction, and generative modeling of dynamic scenes.	
WEIZMANN INSTITUTE OF SCIENCE, REHOVOT, ISRAEL <i>Computer Vision Researcher, Advised by Prof. Tali Dekel</i>	June 2023 – August 2024
• Conducted research on self-supervised dense long-range point tracking in videos, leading to DINO-Tracker, published at ECCV 2024.	

SELECTED TALKS AND PRESENTATIONS

ISRAEL COMPUTER VISION DAY Oral presentation - “Time-to-Move: Training-Free Motion Controlled Video Generation via Dual-Clock Denoising”.	January 2026
ISRAEL COMPUTER VISION DAY Oral presentation - “DINO-Tracker: Taming DINO for Self-Supervised Point Tracking in a Single Video”.	January 2025

TEACHING AND MENTORING

Teaching Assistant and Research Advisor – “Project in Deep Learning”, “Project in Computer Vision”	Technion, Fall 2024 – Spring 2026
Teaching Assistant – “Fundamental Algorithms” (graduate)	NYU, Fall 2019

AWARDS AND HONORS

TEL AVIV UNIVERSITY , School of Mathematical Sciences • Dean’s List: 2013, GPA: 95.

ADDITIONAL INDUSTRY EXPERIENCE

PAGAYA TECHNOLOGIES, TEL AVIV, ISRAEL <i>Data Scientist, Research Department</i>	September 2020 – May 2023
• Developed ML models for credit risk and loan evaluation, including a secondary-loan model used in over \$200M of investment decisions and improving annual returns by 1% over the previous model.	
• Led the training program for junior data scientists and designed the senior data scientist technical interview process.	
EVERCOMPLIANT, NEW YORK, NY <i>Software Engineering Intern, Rapid Development Team</i>	June 2019 – September 2019
• Led research initiative on detecting online money laundering by analyzing discrepancies between web traffic and transactional data.	

MILITARY SERVICE

INTELLIGENCE CORPS TECHNOLOGICAL UNIT Israeli Defense Forces, ISRAEL <i>Network Security Analyst, Staff Sergeant</i>	November 2013 – May 2017
• Led a team responsible for obtaining intelligence sources for a high-priority project; the team was recognized as finalist for the Israel Defense Prize.	