

GUY OHAYON

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I am a PhD candidate in Computer Science at Technion – Israel Institute of Technology. My research revolves around the fundamental trade-offs and limitations that govern inverse problems in imaging, and developing novel techniques to address them.



EDUCATION

Computer Science | *Doctor of Philosophy (direct track)* MARCH 2021 - PRESENT
Technion

- Researching the fundamental mathematical laws and trade-offs that govern inverse problems in imaging
- Advised by Michael Elad and Tomer Michaeli

Computer Engineering | *Bachelor of Science* MARCH 2017 - MARCH 2021
Technion GPA: 95.4

- Summa cum laude
- EMET Excellence Program

WORK EXPERIENCE

Verily | *Research Scientist Intern* MAY 2024 - SEPTEMBER 2024

- Research in medical imaging

Microsoft | *Research Scientist Intern* JUNE 2022 - SEPTEMBER 2023

- Research in computer vision and language models

Amazon Web Services | *Computer Vision Research Intern* AUGUST 2021 - NOVEMBER 2021

- Research in text image recognition via self-supervised learning

Google | *Software Engineering Intern* MAY 2020 - APRIL 2021

- Designed a scalable TCP packet loss estimation algorithm based on packet sampling

Intel | *Student Machine Learning Engineer* AUGUST 2018 - JUNE 2019

- Utilized reinforcement learning techniques to compile neural networks on dedicated hardware

Maisha Consulting | *Remote-sensing Systems Integrator* SEPTEMBER 2016 - MARCH 2017

- Integrated cost-effective remote sensing systems that helped identify environmental criminals (e.g., poachers) in Africa

TEACHING EXPERIENCE

Technion | *Teaching Assistant, Numerical Algorithms - 2340125* OCTOBER 2024 - PRESENT

Technion | *Teaching Assistant, Machine Learning - 046195* OCTOBER 2021 - MARCH 2022

Technion | *Teaching Assistant, Introduction to Artificial Intelligence - 236501* MARCH 2021 - JULY 2021

PUBLICATIONS

- [1] **Guy Ohayon**, Tomer Michaeli, Michael Elad, “Posterior-Mean Rectified Flow: Towards Minimum MSE Photo-Realistic Image Restoration”, under review.
- [2] **Guy Ohayon**, Michael Elad, Tomer Michaeli “Perceptual Fairness in Image Restoration”, NeurIPS 2024.
- [3] **Guy Ohayon**, Tomer Michaeli, Michael Elad, “The Perception-Robustness Tradeoff in Deterministic Image Restoration”, ICML 2024 (spotlight).
- [4] **Guy Ohayon**, Theo Adrai, Michael Elad, Tomer Michaeli, “Reasons for the Superiority of Stochastic Estimators over Deterministic Ones: Robustness, Consistency and Perceptual Quality”, ICML 2023.
- [5] Theo Adrai, **Guy Ohayon**, Michael Elad, Tomer Michaeli, “Deep Optimal Transport: A Practical Algorithm for Photo-realistic Image Restoration”, NeurIPS 2023.
- [6] Sean Man, **Guy Ohayon**, Theo Adrai, Michael Elad, “High-Perceptual Quality JPEG Decoding via Posterior Sampling”, CVPR 2023, NTIRE Workshop.
- [7] **Guy Ohayon**, Theo Adrai, Gregory Vaksman, Michael Elad, Peyman Milanfar, “High Perceptual Quality Image Denoising with a Posterior Sampling CGAN”, ICCV 2021, AIM Workshop (Best Student Paper Award).

HONORS AND AWARDS

- Technion Artificial Intelligence Hub (Tech AI) Student Research Prize for Cross-PI Collaboration in Data Science in Funding of PBC (VATAT) for 2023 - 2024
- Commendation (4th place) at the Research Day for Graduate Students, Faculty of Computer Science, Technion (2024)
- Winner (1st place) at the Research Day for Graduate Students, Faculty of Computer Science, Technion (2021)
- Best Student Paper Award, Advances in Image Manipulation (AIM) Workshop, ICCV (2021)
- Amdocs Best Project Contest Award for Undergraduate Students, Faculty of Computer Science, Technion (2021)
- EMET Excellence Program, Faculty of Electrical and Computer Engineering, Technion (2017-2021)
- President's List Award for Excellence ($\times 6$), Technion (2017-2021)
- Dean's List Award for Excellence ($\times 2$), Faculty of Electrical and Computer Engineering, Technion (2017-2021)
- Head of Military Intelligence Directorate Prize for Creative Thinking (2016)