

Academic Background _____

ETH Zürich Zürich, Switzerland

POSTDOCTORAL RESEARCHER IN COMPUTER SCIENCE

2024 - Present

• ETH AI Center. Postdoctoral researcher at the ETH AI Center under the supervision of Professors Andreas Krause, Mrinmaya Sachan, and Ryan Cotterell. Research focuses on advancing LLM capabilities with strategic compute allocation during inference.

• SwissAl. Contributing to the SwissAl core LLM initiative, developing a large language model from scratch on a 10,000 GPU GH200 Nvidia cluster.

Technion - Israel Institute of Technology

Haifa, Israel

PHD (DIRECT TRACK) IN COMPUTER SCIENCE

2017 - 2022

- Research in distributed neural networks under the supervision of Prof. Assaf Schuster.
- Received a PhD scholarship from the Hasso-Plattner Institute.

Technion - Israel Institute of Technology

Haifa, Israel

BSC IN COMPUTER SCIENCE

2013 - 2017

- Won first place at the Technion's ACM ICPC Competition.
- · Represented the Technion universoty at the international 2015 ACM ICPC SWERC coding competition.

Publications

2025	From Problem-Solving to Teaching Problem-Solving: Aligning LLMs with Pedagogy using	Under-Review
	Reinforcement Learning	
	David Dinucu-Jianu, Jakub Macina, Nico Daheim, Ido Hakimi , Iryna Gurevych, Mrinmaya Sachan	
2025	Local mixtures of experts: Essentially free test-time training via model merging	COLM
	Ryo Bertolissi, Jonas Hübotter, Ido Hakimi , Andreas Krause	
2025	Mathtutorbench: A benchmark for measuring open-ended pedagogical capabilities of llm tutors	Under-Review
	Jakub Macina, Nico Daheim, Ido Hakimi , Manu Kapur, Iryna Gurevych, Mrinmaya Sachan	
2025	Efficiently Learning at Test-Time: Active Fine-Tuning of LLMs	ICLR
	Jonas Hübotter, Sascha Bongni, <mark>Ido Hakimi</mark> , Andreas Krause	
2023	q2d: Turning Questions into Dialogs to Teach Models How to Search	EMNLP
	Yonatan Bitton, Shlomi Cohen-Ganor, Ido Hakimi , Yoad Lewenberg, Roee Aharoni, Enav Weinreb	
2022	SMEGA ² : Distributed Asynchronous Deep Neural Network Training With a Single Momentum Buffer	ICPP
	Rafi Cohen*, Ido Hakimi *, Assaf Schuster	
2021	Faster neural network training with approximate tensor operations	NeurIPS
	Menachem Adelman, Kfir Yehuda Levy, Ido Hakimi , Mark Silberstein	
2021	Asynchronous Distributed Learning: Adapting to Gradient Delays without Prior Knowledge	ICML
	Rotem Zamir Aviv, Ido Hakimi , Assaf Schuster, Kfir Yehuda Levy	
2021	Fine-tuning giant neural networks on commodity hardware with automatic pipeline model	USENIX-ATC
	parallelism	USENIA-AIC
	Saar Eliad, Ido Hakimi, Alon De Jagger, Mark Silberstein, Assaf Schuster	
2021	LAGA: Lagged AllReduce with Gradient Accumulation for Minimal Idle Time	ICDM
	Ido Hakimi, Rotem Zamir Aviv, Kfir Yehuda Levy, Assaf Schuster	
2020	Gap-Aware Mitigation of Gradient Staleness	ICLR
	Saar Barkai*, Ido Hakimi*, Assaf Schuster	
2019	Taming momentum in a distributed asynchronous environment	arXiv
	Ido Hakimi*, Saar Barkai*, Moshe Gabel, Assaf Schuster	
	* equal contribution.	

PROGRAM COMMITTEES

KDD • 2021, 2022, 2023, 2024	ICLR · 2022 ¹ , 2023,2024	NeurIPS • 2022 ¹ , 2023,2024,2025

AUGUST 3, 2025 IDO HAKIMI · RÉSUMÉ



Google DeepMind Tel-Aviv, Israel

RESEARCH ENGINEER 2024 - 2024

• LLM Planning Complex Task Decomposition. Developed an algorithm for handling complex task that require iterative planning with multiple information retrievals. For example, "What are the top ten US based oil comapnies by net value? List their ticker symbol, net worth, stock price, and CEO name." This guery requires breaking down into smaller tasks, which are then run in parallel to retrieve the required information.

- LLM Creative Writing. We found that LLMs perform poorly in creative writing (based on drama writing experts), when the LLM is not prompted properly. For example, writing short drama stories or plays have certain rules that are typically followed such as "show don't tell". Prompting the LLM to first research about the subject and allow itself to learn about what to emphasize greatly improves the writing results.
- Served as a reviewer for NLP grant proposals

Google Research Tel-Aviv, Israel

RESEARCH ENGINEER

- LLM In-Context Hallucination Reduction. Developed a hallucination detection model that utilized a novel iterative adversarial synthetic data generation method to identify in-context hallucinations more effectively.
- Bard Powered Personal Assistant (Page-1). Developed a new technique for LLM user property retrieval. Furthermore, we developed a new technique for conversational bot personalization using prompt-tuning as compressed memory.
- LaMDA Query Generation. Developed a new technique for conversational query generation using synthetically generated data by large language models. As part of the research, we wrote the q2d academic paper.
- Volunteered to mentor AI interns from under-represented countries.

Toga Networks Hod Hasharon, Israel

RESEARCH SCIENTIST 2021 - 2022

- · Developed new algorithms for large scale distributed neural network training with efficient communications.
- Researched in large batch distributed settings for fast convergence and high final model quality.

Amazon - Alexa Shopping Research

Haifa, Israel

2022 - 2024

APPLIED SCIENTIST INTERN

2020

· Researched on conservative reformulation of user utterances to improve question answering.

Facebook - Data AI Tel-Aviv, Israel

MACHINE LEARNING INTERN

• Developed and deployed a personalized data artifact retriever using user activity usage.

Technion - Israel Institute of Technology

Haifa, Israel

Al Project Instructor

2018 - 2020

• Mentored various AI based projects, some of which later became research paper.

Apple - Turi Seattle, WA

DEEP LEARNING RESEARCH INTERN

2018

Research on neural network ensemble technique which utilizes parallel training of neural networks without any communications during training.

Technion - Israel Institute of Technology

Haifa, Israel 2017 - 2019

HEAD TEACHING ASSISTANT

- Served as Head TA for the "Concurrent and Distributed Programming for Data processing and Machine Learning" course (236370).
- Transformed the course to be more data-oriented for ML.
- Responsibilities included writing and grading exams, as well as writing the homework assignments.

Dell EMC - ScaleIO Haifa, Israel

SOFTWARE ENGINEER STUDENT

2015 - 2017

- Wrote low-level high-performance C code for ScaleIO software-defined storage solution.
- Developed a new efficient algorithm to load-balance server storage blocks for high performance and scalability.
- · Received an acknowledgment of excellence.