

Guy Kaplan, PhD. Candidate

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Education

- 2025 – today 📖 PhD. Computer Science (NLP & Deep Learning thesis) ; **The Hebrew University of Jerusalem**; Advisor: Dr. Roy Schwartz.
- 2022 – 2025 📖 M.Sc. Computer Science (NLP & Deep Learning thesis) ; **The Hebrew University of Jerusalem**; Advisor: Dr. Roy Schwartz.; Final GPA 95 / 100.
- 2019 – 2022 📖 B.Sc. Computer Science (Dean's Honours 2021) ; **The Open University of Israel** ; Final GPA 90 / 100.
- 📖 B.A. Economics ; **Tel-Aviv University** ; Final GPA 87 / 100.
- 2014 📖 B.A. General Studies (Magna Cum Laude) ; **University of Haifa** ; Final GPA 93 / 100.
- 2007 – 2010 📖 High School Diploma ; Shoham High School ; Majors: Computer Science, Mathematics, English. Final GPA 112.7 / 100.

Research Publications

Conference Proceedings

- 1 **G. Kaplan**, M. Oren, Y. Reif, and R. Schwartz, "From tokens to words: On the inner lexicon of llms," in *Proceedings of the 13th International Conference on Learning Representations*, Published and presented at ICLR 2025, 2025. 🔗 URL: <https://arxiv.org/abs/2410.05864>.
- 2 Y. Reif, **G. Kaplan**, and R. Schwartz, "Vocab diet: Reshaping the vocabularies of llms with vector arithmetic," in *Empirical Methods in Natural Language Processing*, 2025.

Pre Prints

- 1 **G. Kaplan**, M. Toker, Y. Reif, Y. Belinkov, and R. Schwartz, *Follow the flow: On information flow across textual tokens in text-to-image models*, preprint, 2025. 🔗 URL: <https://arxiv.org/abs/2504.01137>.

Professional Experience

- Mar 2024 – Dec 2024 📖 Data Scientist ; **Microsoft** ; Built large-scale NLP and anomaly detection models for risky user detection .
- Oct 2023 – Today 📖 Chief Scientist Officer (pt) ; **Bright Forensic Innovations**, Tel Aviv ; Led AI-forensic R&D; raised dental-ID top-10 accuracy 10 % → 89 %; Developed the algorithmic part of full DVI operations system.

Professional Experience (continued)

- Mar 2022 – Mar 2024  Software Engineer ; **Microsoft** ; Developed features using EventHub & Cosmos DB for UEBA product (cyber security) in Azure defender; drove CI/CD rollout.
- Jul – Oct 2021  Software Engineering Intern ; **Yahoo!**, Tel Aviv ;
- 2011 – 2019  Naval Officer (Major) ; **Israeli Navy** – Air Patrol Unit ; Commanded 50 personnel, flight ops; earned Palmachim AFB Commander's Award.

Skills

- Programming  Python (PyTorch, TensorFlow, PySpark), Java, Bash, $\text{\LaTeX}$
- ML & NLP  Transformers, LLM fine-tuning (LoRA / QLoRA), RAG, contrastive learning, recommender systems, vector search
- Data Engineering  Apache Spark, HDFS, Delta Lake, Azure Data Lake Storage, AWS S3
- Cloud & DevOps  Azure ML, Kubernetes, Docker, CI/CD (GitHub Actions, Azure Pipelines)
- Soft Skills  Technical mentoring, cross-team communication, public speaking

Additional Information

- 2010 – 2011  Year of Service Volunteer ; Israeli Scouts – Bedouin Youth at Risk ; Full-time educational & social engagement in the Negev.