

Oren Sultan, AI Research Scientist and CS PhD candidate

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1 Education

- **Feb 2023 - Oct 2026:** PhD Candidate (**direct track for excellent students**) in Computer Science at The Hebrew University, Israel. Advisor: Prof. Dafna Shahaf. **Two long papers accepted to the main conference of NAACL 2024, EMNLP 2024.**
- **Oct 2020 - Dec 2022:** M.Sc in Computer Science, The Hebrew University, Israel. Advisor: Prof. Dafna Shahaf. **GPA: 96.5/100.** **Two long papers were accepted to the main conference of EMNLP 2022. Selected to deliver graduation speech.**
 - **May 2022 - Sep 2022:** **M.Sc Erasmus+ Exchange Program & Scholarship**, The Technical University of Munich.
- **Oct 2015 - Mar 2019:** B.Sc in Computer Science, The Hebrew University, Israel. **GPA: 90.21/100, Magna Cum Laude.**
 - **Feb 2018 - Jun 2018:** **Exchange Program & Scholarship**, The University of Melbourne.
 - **2017 - 2019:** Studied towards MBA in Big Data – an **excellence program for outstanding B.Sc students** (B.Sc & MBA in only 4 years). Completed the 8 mandatory courses, **GPA: 96.16/100.**

2 Honors & Awards, Scholarships & Fellowships

- **2024 - present:** **Fellowship for outstanding PhD candidates in AI and Data Science**, The Planning & Budgeting Committee (PBC) of Council For Higher Education (CHE), Israel.
- **2022 - present:** **MSc & PhD Scholarship** – Dafna Shahaf Hyadata-Lab, The Hebrew University, Israel.
- **2022:** **Erasmus+ Scholarship for honors students**, Technical University of Munich, Germany.
- **2019:** B.Sc in Computer Science – **Magna Cum Laude**, The Hebrew University of Jerusalem, Israel.
- **2018:** **Scholarship for honors students**, The University of Melbourne, Australia.
- **2013:** **Annual Excellence Tech Project Award**, The Israeli Intelligence Corps, Commander of Unit 8200 (rank: Tat Aluf).
- **2012:** **Annual Excellence Team Award**, The Israeli Intelligence Corps, Commander of R&D, Unit 8200 (rank: Aluf Mishne).

3 Peer-Reviewed Publications

- **2025:** Towards Reliable Proof Generation with LLMs: A Neuro-Symbolic Approach
 - **Authors:** **Oren Sultan**, Eitan Stern, Dafna Shahaf.
 - **Conference:** submitted to EMNLP 2025 (under review)
- **2024:** Visual Editing with LLM-based Tool Chaining: An Efficient Distillation Approach for Real-Time Applications
 - **Authors:** **Oren Sultan**, Alex Khasin, Guy Shiran, Asnat Greenstein-Messica, Dafna Shahaf.
 - **Conference:** EMNLP 2024 (main conference, industry track).
- **2024:** ParallelPARC: A Scalable Pipeline for Generating Natural-Language Analogies
 - **Authors:** **Oren Sultan**, Yonatan Bitton, Ron Yosef, Dafna Shahaf.
 - **Conference:** NAACL 2024 (main conference), ISCOL 2024.
- **2022:** Life is a Circus and We are the Clowns: Automatically Finding Analogies between Situations and Processes
 - **Authors:** **Oren Sultan**, Dafna Shahaf.
 - **Conference:** EMNLP 2022 (main conference).
- **2022:** Breakpoint Transformers for Modeling and Tracking Intermediate Beliefs
 - **Authors:** Kyle Richardson, Ronen Tamari, **Oren Sultan**, Reut Tsarfaty, Dafna Shahaf, Ashish Sabharwal.
 - **Conference:** EMNLP 2022 (main conference).

4 Professional Experience

- **Jul 2025 - Jan 2026: Research Scientist Intern @ Meta FAIR (Facebook AI Research).**
- **Mar 2024 - Jun 2025: AI Researcher (Part-time Student Position), Lightricks.**
- **Oct 2023 - Dec 2023: Co-founded and led speical forces of researchers and data scientists in the fields of NLP & IR, Unit 8200 (Captain in reserves).**
- **Aug 2023 - Feb 2024: AI Researcher (Full-time Summer Intern), Lightricks.**
 - Resulting in a publication (EMNLP 2024): "Visual Editing with LLM-based Tool Chaining: An Efficient Distillation Approach for Real-Time Applications". Successfully deployed into VideoLeap app.
- **Mar 2023 - Apr 2023: AI / NLP Visiting Researcher. Hosts:** Prof. Frank Guerin (The University of Surrey), Prof. Chenghua Lin (The University of Sheffield).
- **May 2022 - Jul 2022: NLP Researcher,** The Technical University of Munich – Social Computing Lab (Prof. Georg Groh).
- **Oct 2021 - Present: AI/NLP Researcher,** The Hebrew University, Israel. Advisor: Prof. Dafna Shahaf.
- **Aug 2019 - Sep 2020: Backend Software Engineer (Search), Algorithms group, Fiverr.**
 - **Tech Stack:** Go, ElasticSearch, BigQuery, Redis, MySQL. Other: Docker/Kubernetes, Jenkins, RabbitMQ, Kafka, GitHub, Amazon cloud (AWS), Grafana, Graylog, Coralogix.
- **Nov 2016 - Dec 2017: Data Engineer Consultant, Madeira Data Solutions.**
 - Consultant for leading Israeli tech firms, specializing in problem-solving, performance optimization, T-SQL development, high availability (Always On, Mirroring, Replication), and BI solutions (SSIS).
- **Jun 2014 - Oct 2015: Data Engineer, MyThings.**
 - MSSQL DWH DBA and Big Data Engineer. **Tech Stack:** MSSQL, HQL scripts (Hive), ElasticSearch, EXASOL.
- **2008 - 2013: MSSQL Data Engineer, Data Engineering Founder & Team Leader – R&D, Unit 8200.**
 - Led and found a team of seven soldiers, officers and consultants for MSSQL, that is responsible for developing applicative projects and the infrastructure of SQL Server in the unit.
 - **Main Infra Project:** developing Infrastructure for SQL server consolidation and developing database cloud services.
 - **Additional responsibilities:** Leader technical interviewer.

5 Invited Talks

- **Apr 2025:** “Visual Editing with LLM-based Tool Chaining”, Nvidia & NLP IL Meetup, Israel.
- **Sep 2024:** “Visual Editing with LLM-based Tool Chaining”, AI course, Lightricks, Israel.
- **Sep 2024:** “Fine-Tuning Large Language Models (LLMs)”, AI course, Lightricks, Israel.
- **Jun 2023:** “Finding Analogies between Situations and Processes”, MSc graduation ceremony, Hebrew University, Israel.
- **Mar 2023:** “Analogies of Situations and Processes: Detection, Explanation, Generation”, SheffieldNLP, UK.
- **Jan 2023:** “Using LLMs for Natural-Language Analogies Generation”, BIU-NLP, Bar Ilan University, Israel.
- **Jan 2023:** “Automatically Finding Analogies between Situations and Processes”, The Hebrew University, Israel.
- **Jan 2022:** “Breakpoint Transformers for Modeling and Tracking Intermediate Beliefs“, Aristo team, AI2, Seattle, USA.

6 Academic Activities

- **TA:** “self-paced introduction to data science” (67876) at the Center for Interdisciplinary Data-Science Research (CIDR), The Hebrew University, Israel. 2023 - present.
- **Conference Reviewer:** ACL 2024

7 Miscellaneous

- **Citizenships:** Israeli, Portuguese.
- **Languages:** Hebrew (mother tongue), English (fluent), Spanish (intermediate), German (elementary).