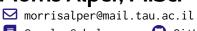
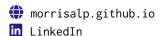
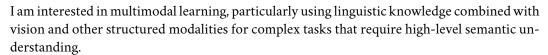
Morris Alper, M.Sc.



☐ Google Scholar ☐ GitHu







Education

2023 – ongoing	Ph.D., Tel Aviv University Electrical Engineering (Machine Learning) Advisor: <i>Dr. Hadar Averbuch-Elor</i>
2019 – 2023	M.Sc. (cum laude), Tel Aviv University Computer Science Advisor: Dr. Hadar Averbuch-Elor Thesis: Learning Human-Human Interactions in Images with Weak Textual Supervision GPA: 98 / 100
2012 – 2016	B.Sc., Massachusetts Institute of Technology (MIT) Linguistics and Mathematics (dual major). GPA: 4.9 / 5

Employment History

2019 – 2023	Data Science Lead and Lecturer, Israel Tech Challenge. Designed syllabus, wrote, and delivered lectures on data science to industry professionals.
2019 – 2021	NLP Data Scientist, Pipl, Inc. Designed information extraction algorithms for unstructured textual web data.
2018 – 2019	NLP Data Scientist, Reverso-Softissimo. Designed NLP algorithms to automatically correct and enrich linguistic data.
2017 – 2018	Software Developer, K Dictionaries. Managed API for lexicographic data, and developed algorithms for data enrichment
2015 – 2016	Software and Algorithm Developer, Voiceitt. Prototyped speech recognition algorithms and integrated them into the company's API.
2016	Algorithm Development Intern, SECOM. Developed algorithms for improved facial recognition.
2012-2015	Undergraduate Research in Cognitive Linguistics, TedLab, MIT. Analyzed psycholinguistic survey data to study cognition and language.

Research Publications

Peer-Reviewed Conference Papers

- 1. Chen Dudai*, **Morris Alper***, Hana Bezalel, Rana Hanocka, Itai Lang, and Hadar Averbuch-Elor. HaLo-NeRF: Learning Geometry-Guided Semantics for Exploring Unconstrained Photo Collections. *Proceedings of the Eurographics Conference (EG)*, 2024.
- 2. **Morris Alper** and Hadar Averbuch-Elor. Kiki or Bouba? Sound Symbolism in Vision-and-Language Models. *Advances in Neural Information Processing Systems (NeurIPS)*, 2023. (spotlight paper)
- 3. **Morris Alper** and Hadar Averbuch-Elor. Learning Human-Human Interactions in Images from Weak Textual Supervision. *Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)*, 2023.

^{*} indicates equal contribution.

4. **Morris Alper***, Michael Fiman*, and Hadar Averbuch-Elor. Is BERT Blind? Exploring the Effect of Vision-and-Language Pretraining on Visual Language Understanding. *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2023.

Miscellaneous Experience

Presentations and Interviews

2024 IMVC 2024 presentation on "Kiki or Bouba?" NeurIPS 2023 paper

■ Radio interview for Kan Tarbut program on VLM sound symbolism research (46:30-60:00, Hebrew language)

Awards and Achievements

International Linguistics Olympiad, first place internationally (both individual and team rounds), best solution (problem 2), Zhurinsky Memorial Prize.

International Linguistics Olympiad, honorable mention (individual round), first place in team round.

2008 **International Linguistics Olympiad**, tied for 6th place individual round (silver medal).

Academic Teaching Experience

Spring 2024 (upcoming) **Deep Learning**, teaching assistant, Tel Aviv University.

Fall 2023 (ongoing) **Digital Signal Processing**, teaching assistant, Tel Aviv University.

Languages

English (native), Hebrew (professional), French (intermediate)

References

Available upon request