

Morris Alper, M.Sc.

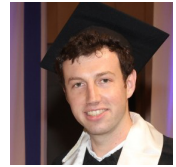
✉ morrisalper@mail.tau.ac.il

📄 [Google Scholar](#)

🐙 [GitHub](#)

🌐 morrisalp.github.io

🌐 [LinkedIn](#)



I am interested in multimodal learning, particularly using linguistic knowledge combined with vision and other structured modalities for complex tasks that require high-level semantic understanding.

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: <i>Dr. Hadar Averbuch-Elor</i> Thesis: <i>Learning Human-Human Interactions in Images with Weak Textual Supervision</i> 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

* indicates equal contribution.

Peer-Reviewed Conference Papers

- 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.
- 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)
- 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.

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

Awards and Achievements

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| 2011 | International Linguistics Olympiad , first place internationally (both individual and team rounds), best solution (problem 2), Zhurinsky Memorial Prize. |
| 2009 | 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

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| 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