

# Yonatan Bitton, Curriculum Vitae, July 2022

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## Contact Information

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## Education

- PhD., Computer Science, The Hebrew University of Jerusalem** 2020–Present  
*Advisors: Prof. Gabriel Stanovsky and Prof. Roy Shwartz*  
Generalization of Vision and Language Models. Four first-author papers
- MSc., magna cum laude, Computer Science, Ben Gurion University** 2019–2020  
*Advisors: Prof. Michael Elhadad and Prof. Eitan Bachmat*  
Cross-lingual entity linking and visual question answering. GPA 97
- BSc, Computer Science, Ben Gurion University, 2015–2019** 2015–2019

## Work Experience

- Research Scientist Intern, Google Research** 2022–Present  
Researcher in Cerebra team
- Applied Scientist Intern, Amazon Lab126** 2019–2022  
Researcher in Halo team - Visual Fitness. Prompted to L5 level in Q1/22
- Research Student, IBM Research** 2017–2019  
Using data-science and machine-learning methods in order to detect frauds

## Peer-Reviewed Publications

- [1] **Bitton, Y.**, Guetta, N., Yosef, R., Bansal, M., Stanovsky, G., Shwartz, R.  
WinoGAViL: Gamified Association Benchmark to Challenge Vision-and-Language Models  
Under Review
- [2] **Bitton, Y.**, Yosef, R., Strugo, E., Shahaf, D., Shwartz, R., Stanovsky, G.  
VASR: Visual Analogies of Situation Recognition  
Under Review
- [3] **Bitton, Y.**, Stanovsky, G., Elhadad, M., Shwartz, R.,  
Data Efficient Masked Language Modeling For Vision and Language  
Findings of the Association for Computational Linguistics: EMNLP 2021
- [4] **Bitton, Y.**, Stanovsky, G., Shwartz, R., Elhadad, M.,  
Automatic Generation of Contrast Sets from Scene Graphs:  
Probing the Compositional Consistency of GQA  
North American Chapter of the Association of Computational Linguistics (NAACL 2021)
- [5] **Bitton, Y.**, Cohen, R., Schifter, T., Bachmat, E., Elhadad, M., Elhadad, N.  
Cross-lingual Unified Medical Language System entity linking in online health communities  
Journal of the American Medical Informatics Association (JAMIA 2020)

## Selected Awards and Scholarships

### PHD AWARDS

- KLA Scholarship for Outstanding Graduate Students 2022

### MSc AWARDS

- Dean's Award for Excellence 2020  
Graduated with honors (*magna cum laude*) 2020  
Computer Science Department Research Excellence Award for journal publication 2020

## Professional Activities

CONFERENCE  
REVIEWER

NeurIPS Datasets and Benchmarks	2022
Annual Meeting of the Association of Computational Linguistics (ACL)	2021
Conference on Empirical Methods in Natural Language Processing (EMNLP)	2021

## Open Source

WinoGAViL: Gamified Association Benchmark To Challenge Vision-And-Language Models

Project website: <https://winogavil.github.io/>

Software: <https://github.com/WinoGAViL/WinoGAViL-experiments>

VASR: Visual Analogies of Situation Recognition

Project website: <https://vasr-dataset.github.io/>

Software: <https://github.com/vasr-dataset/vasr>

Data Efficient Masked Language Modeling for Vision and Language

[https://github.com/yonatanbitton/data\\_efficient\\_masked\\_language\\_modeling\\_for\\_vision\\_and\\_language](https://github.com/yonatanbitton/data_efficient_masked_language_modeling_for_vision_and_language)

Automatic Generation of Contrast Sets from Scene Graphs

[https://github.com/yonatanbitton/automatic\\_generation\\_of\\_contrast\\_sets\\_from\\_scene\\_graphs](https://github.com/yonatanbitton/automatic_generation_of_contrast_sets_from_scene_graphs)

Cross-lingual unified medical language system entity linking in online health communities

<https://github.com/yonatanbitton/mdtel>