

Yonatan Bitton, Curriculum Vitae, July 2022

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. Promoted 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

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>