Yonatan Bitton, Curriculum Vitae, November 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*

Researcher, Google Research   2022-Present
Cerebra team

Applied Scientist, Amazon Lab126   2019-2022
Halo team - Visual Fitness.

Researcher, IBM Research   2017-2019
Developing machine-learning methods 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
Neural Information Processing Systems Datasets and Benchmarks Track (**NeurIPS 2022**)

[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

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*Parallel to studies

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

<small>CONFERENCE REVIEWER</small>

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`