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 publications

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**., Yosef, R., Strugo, E., Shahaf, D., Shwartz, R., Stanovsky, G.
VASR: Visual Analogies of Situation Recognition
Association for the Advancement of Artificial Intelligence (**AAAI 2023**)

[2] **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**)
Selected as **Oral Presentation**

[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