ROYI RASSIN

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First year PhD at BIU NLP lab, supervised by Prof. Yoav Goldberg. My research interests encompass underspecified language learning, machine learning in unique environments, representational learning, and interpretability of neural models for NLP as well as diffusion models.

EDUCATION

Ph.D in Natural Language Processing and Machine Learning   2022 – Present
Bar-Ilan University
Advisor: Prof. Yoav Goldberg
Research Topics: Underspecified Language; Abstractive Abilities of Learning Models; Interpretability; Representational Learning

M.Sc in Natural Language Processing and Machine Learning   2020 – 2022
Bar-Ilan University
Advisor: Prof. Yoav Goldberg and Prof. Reut Tsarfaty
Research Topics: Modeling Implicit Language; Information Extraction; Interpretability; Language Understanding in Diffusion Models

B.Sc in Computer Science   2016 – 2019
College of Management
Graduated with a final grade of 94 (Dean's Honors).
Final Project: Machine Learning for Anomaly Detection in an imbalanced data environment.

EXPERIENCE

Machine Learning Teaching Assistant   Oct 2019 - Present

TA in multiple graduate-level machine learning courses for computer science students.

Research Engineer, Geva's Neuropsychology Lab   2019 - 2020

Tested brain scientists' hypotheses on a research project which focuses on predicting infants' likelihood of developing social impairments through eye-movement

Research Intern, Basis Technology   Jul - Oct 2019

Developed an internal research framework; optimized performance of neural models for a Chinese Word Segmentation task; Researched the feasibility of learning instant-messages behavior from an email dataset.

PUBLICATIONS

- **Royi Rassin***, Shauli Ravfogel*, Yoav Goldberg. **DALLE-2 is Seeing Double: Flaws in Word-to-Concept Mapping in Text2Image Models**. BlackBoxNLP@EMNLP 2022.

ACADEMIC SERVICE

Reviewer: EMNLP 2022

AWARDS

- 2022-2026: The Presidential Scholarship for Outstanding PhD Students

- 2020-2022: The Departmental Scholarship for Outstanding MSc Students

- 2019: Dean's Honors (BSc Computer Science)

- 2018: Perach Distinguished Mentor in CS

TECHNICAL STRENGTHS

NLP	HuggingFace, Transformers, MTurk, Rule-based NLP, spaCy, Dependency Graphs
ML Tools	PyTorch, Tensorflow, Scikit, Pandas, NumPy, Python
Languages	Python, Javascript and React

MISCELLANEOUS

- 2022: attended LxMLS, a selective Machine Learning for NLP summer school

- 2019: Visiting student at Xihua University - took part in a student delegation in order to strengthen the relations between Computer Science students in China and Israel

- 2018: Perach - mentored fellow CS students with learning difficulties