

HILA GONEN

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PROFESSIONAL EXPERIENCE

Meta AI and University of Washington – Postdoctoral Researcher 2021 - now
Amazon – Research Scientist, Alexa shopping – Postdoc position 2020 - 2021
Google NY – summer internship 2019
Google Israel – research student
Automatically Identifying Gender Issues in Machine Translation using Perturbations.
“**Beyond Minds**” – providing expert knowledge to AI companies: Consultant. 2019
Intel – WiFi core and features team: developing WiFi driver in C Language. 2012 - 2013

EDUCATION

Bar-Ilan University 2015 - 2021
PhD student in computer science.
Research field: **Natural Language Processing and deep learning**, under the supervision of Prof. Yoav Goldberg.
Thesis: **Multilinguality and Bias in Language Modeling**.
Grades: average – **97.3**
The Hebrew University of Jerusalem 2012 - 2014
M.Sc. in computer science (with honor).
Research field: formal verification, under the supervision of Prof. Orna Kupferman.
Thesis: **Inherent Vacuity in Lattice Automata**.
Grades: average – **95.37**, final exam – **96**, thesis – **95**.
The Hebrew University of Jerusalem 2009 - 2012
B.Sc. in computer science (major) and Physics (minor).
Studied during autumn 2011 in the University of Helsinki as an exchange student.
Grades: average – **91.19**, CS average – **92.31**.

AWARDS

Fulbright Postdoctoral Fellowship – declined. 2021
Rothschild Postdoctoral Fellowship, Yad Hanadiv. 2021
The Eric and Wendy Schmidt Postdoctoral Award for Women in Mathematical and Computing Sciences. 2019
Best paper award at CoNLL (Conference on Computational Natural Language Learning). 2019
Excellence scholarship for PhD students from Bar-Ilan University (the President’s Scholarship). 2016
M.Sc. in computer science with honor from the Hebrew University of Jerusalem. 2014
Excellence scholarship for M.Sc. students from the school of Computer Science and Engineering at the Hebrew University of Jerusalem. 2012
Dean’s list, second year of B.Sc. 2011

PUBLICATIONS

- H. Gonen, S. Ravfogel and Y. Goldberg. Analyzing Gender Representation in Multilingual Models. In Proceedings of the ACL Workshop Repl4NLP: Representation Learning for NLP, 2022.
- I. Gamzu, H. Gonen, G. Kutiel, R. Levy and E. Agichtein. Identifying Helpful Sentences in Product Reviews. In proceedings of NAACL, 2021.
- E. Rabinovich, H. Gonen and S. Stevenson. Pick a Fight or Bite your Tongue: Investigation of Gender Differences in Figurative Language Usage. In proceedings of COLING, 2020.
- H. Gonen, S. Ravfogel, Y. Elazar, and Y. Goldberg. It's not Greek to mBERT: Inducing Word-Level Translations from Multilingual BERT. In Proceedings of the EMNLP Workshop BlackboxNLP: Analyzing and Interpreting Neural Networks for NLP, 2020.
- H. Gonen and K. Webster. Automatically Identifying Gender Issues in Machine Translation using Perturbations, In *findings* of EMNLP, 2020.
- S. Ravfogel, Y. Elazar, H. Gonen, M. Twiton and Y. Goldberg. Null it out: Guarding protected attributes by iterative nullspace projection, In proceedings of ACL, 2020.
- H. Gonen, G. Jawahar, Y. Goldberg and D. Seddah. Simple, Interpretable and Stable Method for Detecting Words with Usage Change across Corpora, In proceedings of ACL, 2020.
- H. Gonen, Y. kementchedjhieva and Y. Goldberg. How does Grammatical Gender Affect Noun Representations in Gender-Marking Languages?, In proceedings of CoNLL 2019, **Best Paper**.
- R. H. Maudslay, H. Gonen, R. Cotterell and S. Teufel. It's All in the Name: Mitigating Gender Bias with Name-Based Counterfactual Data Substitution, In proceedings of EMNLP, 2019.
- H. Gonen and Y. Goldberg. Lipstick on a Pig: Debiasing Methods Cover up Systematic Gender Biases in Word Embeddings But do not Remove Them, In proceedings of NAACL, 2019.
- H. Gonen and Y. Goldberg. Language Modeling for Code-Switching: Evaluation, Integration of Monolingual Data, and Discriminative Training, In proceedings of EMNLP, 2019.
- H. Gonen and Y. Goldberg. Semi Supervised Preposition-Sense Disambiguation using Multilingual Data. In proceedings of COLING, 2016.
- H. Gonen and O. Kupferman. Inherent vacuity in lattice automata. In Fields of Logic and Computation II, volume 9300 of Lecture Notes in Computer Science, pages 174-192. Springer, 2015.

ACADEMIC ACTIVITY

REVIEWING

- | | |
|---|------|
| Reviewer for Northern European Journal of Language Technology (NEJLT). | 2022 |
| Reviewer for EACL 2021, NAACL 2021, TrustNLP 2021, Multilingual Representation Learning Workshop 2021 and TACL. | 2021 |
| Reviewer for ACL 2020. | 2020 |
| Reviewer for ACL 2019, *Sem 2019, repEval 2019, EurNLP 2019 and TACL. | 2019 |
| Reviewer for NAACL 2018, COLING 2018, SRW 2018. | 2018 |

ORGANIZATION

- Co-organizer of the 2nd Multilingual Representations Learning Workshop (MRL), EMNLP 2022. 2022

Co-organizer of the 4th Workshop on Research in Computational Typology and Multilingual NLP (SIGTYP), NAACL 2022.	2022
Co-organizer of the 4th Gender Bias in NLP Workshop (GeBNLP), NAACL 2022.	2022
Co-organizer of the 3rd Gender Bias in NLP Workshop (GeBNLP), ACL 2021.	2021

INVITED TALKS

Gender Bias in Word Embeddings:

Guest lecture at the NLP course at UW (Prof. Noah A. Smith) 2022

Subspaces in multilingual models:

University of Washington, Prof. Emily Bender's group 2021

What's in a Representation:

Weizmann Institute 2021

Technion 2021

Hebrew University of Jerusalem 2021

University of Washington, Prof. Noah A. Smith's group 2021

Panelist at a Gender Equality workshop at the WSIS forum (UN/UNESCO) 2021

Panelist at Widening NLP Workshop at AACL-IJCNLP 2020

Representation and Bias in NLP:

Seminar, Ben Gurion University 2019

Gender Bias in Word Embeddings:

FastAI Women course, Tel-Aviv 2020

AI Week, Tel-Aviv 2019

WiDS, Tel-Aviv – selected to appear at **Best of WiDS Global 2021** 2019

Inria lab, Paris 2019

Basis, Israel 2019

Language Modeling for Code-switching:

AI Data Science Summit, Israel 2019

Microsoft Research, Israel 2018

ONLP lab, Israel 2018

Tutorial on word embeddings:

WiDS, Tel-Aviv 2018

Semi Supervised Preposition-Sense Disambiguation using Multilingual Data:

The Data Science Summit Europe, Jerusalem, Israel 2017

EVENTS

Participated in the Logic, Language and Information summer school (NASSLLI) in CMU 2018

Participated in Lisbon Machine Learning School (LXMLS) 2016

Participated in Marktoberdorf Summer School (Dependable Software Systems Engineering) 2014

Participated in Women in Theory workshop (New York) 2014

COURSES AND SERVICE TO HOME INSTITUTION

The Hebrew University: TA in the course "Data Structures" for first-year students (frontal teaching). 2014

The Hebrew University: TA in the course “Computational Models, Computability and Complexity”
for second-year students. *2013*

The Hebrew University: TA in the course “Data Bases”
for second-year students. *2012*

SKILLS

Programming languages: Python, Matlab, C, C++, Java

Tools and Technologies: Deep Learning (DyNet, PyTorch), NLP (spaCy, NLTK), git

LANGUAGES

Hebrew: native tongue.

English: high level.

Arabic: high level. Rich experience in translating Arabic texts.

French: basic level.