HILA GONEN

(+650)5869403 ⋄ hilagnn@gmail.com
https://gonenhila.github.io ⋄ https://github.com/gonenhila

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

Best paper award at the RepL4NLP workshop at ACL. | *2022*

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

<u>H. Gonen</u>, S. Ravfogel and Y. Goldberg. Analyzing Gender Representation in Multilingual Models. In Proceedings of the ACL Workshop RepL4NLP: Representation Learning for NLP, 2022, **Best Paper**.

I. Gamzu, <u>H. Gonen</u>, G Kutiel, R. Levy and E. Agichtein. Identifying Helpful Sentences in Product Reviews. In proceedings of NAACL, 2021.

E. Rabinovich, <u>H. Gonen</u> and S. Stevenson. Pick a Fight or Bite your Tongue: Investigation of Gender Differences in Figurative Language Usage. In proceedings of COLING, 2020.

<u>H. Gonen</u>, 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.

<u>H. Gonen</u> and K. Webster. Automatically Identifying Gender Issues in Machine Translation using Perturbations, In *findings* of EMNLP, 2020.

S. Ravfogel, Y. Elazar, <u>H. Gonen</u>, M. Twiton and Y. Goldberg. Null it out: Guarding protected attributes by iterative nullspace projection, In proceedings of ACL, 2020.

<u>H. Gonen</u>, 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.

<u>H. Gonen</u>, 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, <u>H. Gonen</u>, 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.

<u>H. Gonen</u> 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.

<u>H. Gonen</u> and Y. Goldberg. Language Modeling for Code-Switching: Evaluation, Integration of Monolingual Data, and Discriminative Training, In proceedings of EMNLP, 2019.

<u>H. Gonen</u> and Y. Goldberg. Semi Supervised Preposition-Sense Disambiguation using Multilingual Data. In proceedings of COLING, 2016.

<u>H. Gonen</u> 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.