Gabriel Stanovsky, Curriculum Vitae, October 2020

Contact Information

The Hebrew University of Jerusalem
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Academic Positions

Senior Lecturer, Hebrew University of Jerusalem	2020 – Present
Postdoctoral Scholar, University of Washington	2018–2020
Postdoctoral Scholar, Allen Institute for Artificial Intelligence	2018–2020
Hosts: Prof. Luke Zettlemoyer, Prof. Noah Smith	

Education

Ph.D., Computer Science — 2014–2018
Advisor: Prof. Ido Dagan
Thesis title: "Extracting and Representing Knowledge from Texts"
Bar-Ilan University

M.Sc. ***magna cum laude*** in Computer Science — 2009–2012
Advisor: Prof. Michael Elhadad
Thesis title: "Hebrew Paraphrase Identification"
Ben Gurion University

B.Sc. in Computer Science — 2004–2007
Undergraduate project: "Speech Synthesis"
Advisor: Prof. Shlomi Dolev
Ben Gurion University

Awards and Scholarships

GRANTS

Allen Institute for AI Research Gift	2020

FELLOWSHIPS

Allen Institute for Artificial Intelligence Young Investigator Award	2018-2021
IBM Ph.D. Fellowship award	2015-2016

OUTSTANDING PAPERS

ACL Best Paper Nomination	
Evaluating Gender Bias in Machine Translation	2019
CoNLL Honorable Mention	
On the Limits of Learning to Actively Learn Semantic Representations	2019
MRQA Best Workshop Paper	
Evaluating Question Answering Evaluation	2019

OUTSTANDING REVIEWER

North American Chapter of the Association of Computational Linguistics (NAACL)	2019
Annual Meeting of the Association of Computational Linguistics (ACL)	2017, 2018
Conference on Empirical Methods in Natural Language Processing (EMNLP)	2018

M.SC. AWARDS

Graduated with honors (*magna cum laude*)	2012

Peer-reviewed Publications

CONFERENCE PAPERS

[1] Tom Kocmi, Tomasz Limisiewicz, **Gabriel Stanovsky**, *Gender Coreference and Bias Evaluation at WMT 2020.* Conference on Machine Translation (WMT20).

[2] Anthony Chen, **Gabriel Stanovsky**, Sameer Singh, Matt Gardner, *MOCHA: A Dataset for Training and Evaluating Generative Reading Comprehension Metrics.* Conference on Empirical Methods in Natural Language Processing (EMNLP2020).

[3] Roy Schwartz, **Gabriel Stanovsky**, Swabha Swayamdipta, Jesse Dodge, Noah Smith, *The Right Tool for the Job: Matching Model and Instance Complexities.* Annual Meeting of the Association

of Computational Linguistics (ACL2020).

[4] Paul Roit, Ayal Klein, Daniela Stepanov, Jonathan Mamou, Julian Michael, **Gabriel Stanovsky**, Luke Zettlemoyer, Ido Dagan, *Crowdsourcing a High-Quality Gold Standard for QA-SRL.* Annual Meeting of the Association of Computational Linguistics (ACL2020).

[5] Belinda Li, **Gabriel Stanovsky**, Luke Zettlemoyer, *Active Learning for Coreference Resolution using Discrete Annotation.* Annual Meeting of the Association of Computational Linguistics (ACL2020).

[6] Omri Koshorek, **Gabriel Stanovsky**, Yichu Zhou, Vivek Srikumar and Jonathan Berant, *On the Limits of Learning to Actively Learn Semantic Representations.* Conference on Natural Language Learning (CoNLL 2019). **Received an Honorable Mention award**.

[7] **Gabriel Stanovsky**, Noah A. Smith, Luke Zettlemoyer, *Evaluating Gender Bias in Machine Translation.* Annual Meeting of the Association of Computational Linguistics (ACL 2019). **Nominated for Best Short Paper (top 1% of all submissions)**.

[8] Dheeru Dua, Yizhong Wang, Pradeep Dasigi, **Gabriel Stanovsky**, Sameer Singh and Matt Gardner, *DROP: A Reading Comprehension Benchmark Requiring Discrete Reasoning Over Paragraphs.* North American Chapter of the Association of Computational Linguistics (NAACL 2019)

[9] **Gabriel Stanovsky**, Mark Hopkins, *Spot the Odd Man Out; Exploring the Associative Power of Lexical Resources.* Conference on Empirical Methods in Natural Language Processing (EMNLP 2019)

[10] **Gabriel Stanovsky**, Ido Dagan, *Semantics as a Foreign Language.* Conference on Empirical Methods in Natural Language Processing (EMNLP 2018)

[11] **Gabriel Stanovsky**, Julian Michael, Luke Zettlemoyer, Ido Dagan, *Supervised Open Information Extraction.* North American Chapter of the Association of Computational Linguistics (NAACL 2018)

[12] Julian Michael, **Gabriel Stanovsky**, Luheng He, Ido Dagan, Luke Zettlemoyer, *Crowdsourcing Question-Answer Meaning Representations.* North American Chapter of the Association of Computational Linguistics (NAACL 2018)

[13] **Gabriel Stanovsky**, Judith Eckle-Kohler, Yevgeniy Puzikov, Ido Dagan and Iryna Gurevych, *Integrating Deep Linguistic Features in Factuality Prediction over Unified Datasets.* Annual Meeting of the Association of Computational Linguistics (ACL 2017)

[14] Vered Shwartz, **Gabriel Stanovsky** and Ido Dagan, *Acquiring Predicate Paraphrases from News Tweets.* Joint Conference on Lexical and Computational Semantics (*SEM 2017)

[15] **Gabriel Stanovsky**, Daniel Gruhl and Pablo N. Mendes, *Recognizing Mentions of Adverse Drug Reaction in Social Media Using Knowledge-Infused Recurrent Models.* European Chapter of the Association of Computational Linguistics (EACL 2017)

[16] Omer Levy, Ido Dagan, **Gabriel Stanovsky**, Judith Eckle-Kohler and Iryna Gurevych, *Modeling Extractive Sentence Intersection via Subtree Entailment.* International Conference on Computational Linguistics (COLING 2016)

[17] **Gabriel Stanovsky** and Ido Dagan, *Creating a Large Benchmark for Open Information Extraction.* Conference on Empirical Methods in Natural Language Processing (EMNLP 2016)

[18] Tobias Falke, **Gabriel Stanovsky**, Iryna Gurevych and Ido Dagan, *Porting an Open Information Extraction System from English to German.* Conference on Empirical Methods in Natural Language Processing (EMNLP 2016)

[19] **Gabriel Stanovsky** and Ido Dagan, *Annotating and Predicting Non-Restrictive Noun Phrase Modifications.* Annual Meeting of the Association of Computational Linguistics (ACL 2016)

[20] **Gabriel Stanovsky**, Ido Dagan and Meni Adler, *Specifying and Annotating Reduced Argument Span Via QA-SRL.* Annual Meeting of the Association of Computational Linguistics (ACL 2016)

[21] **Gabriel Stanovsky**, Ido Dagan and Mausam, *Open IE as an Intermediate Structure for Semantic Tasks.* Annual Meeting of the Association of Computational Linguistics (ACL 2015)

JOURNAL PAPERS

[22] Lucy Lu Wang, Gabriel Stanovsky, Luca Weihs, Oren Etzioni, *Gender Trends in Computer Science Authorship.* Communications of the ACM, 2020. **Featured in the New York Times, Science Magazine, Fortune, GeekWire, Axios, and more.**

WORKSHOP PAPERS

[23] Ecological Semantics: Programming Environments for Situated Language Understanding, *Ronen Tamari, **Gabriel Stanovsky**, Dafna Shahaf, Reut Tsarfaty"*. BAICS workshop at ICLR2020.

[24] **Gabriel Stanovsky**, and Ronen Tamari, *Yall should read this! Identifying Plurality in Second-Person Personal Pronouns in English Texts.* Noisy User-generated Text (W-NUT 2019)

[25] Anthony Chen, **Gabriel Stanovsky**, Sameer Singh and Matt Gardner, *Evaluating Question Answering Evaluation.* Machine Reading for Question Answering (MRQA 2019). **Received the Best Paper award**.

[26] Mark Hopkins, Ronan Le Bras, Cristian Petrescu-Prahova, **Gabriel Stanovsky**, Hannaneh Hajishirzi and Rik Koncel-Kedziorski, *SemEval-2019 Task 10: Math Question Answering.* International Workshop on Semantic Evaluation (SemEval-2019)

[27] Rachel Wities, Vered Shwartz, **Gabriel Stanovsky**, Meni Adler, Ori Shapira, Shyam Upadhyay, Dan Roth, Eugenio Martinez Camara, Iryna Gurevych and Ido Dagan, *A Consolidated Open Knowledge Representation for Multiple Texts.* Workshop on Linking Models of Lexical, Sentential and Discourse-Level Semantics (LSDSem 2017)

[28] **Gabriel Stanovsky**, Omer Levy and Ido Dagan, *Proposition Knowledge Graphs.* Workshop on Information Discovery from Text (AHA! 2016)

[29] **Gabriel Stanovsky**, Jessica Ficler, Ido Dagan and Yoav Goldberg, *Intermediary Semantic Representation Through Proposition Structures.* Semantic Parsing Workshop 2014

Additional Publications

[30] **Gabriel Stanovsky**, Jessica Ficler, Ido Dagan, Yoav Goldberg, *Getting More Out Of Syntax with PropS.* arXiv preprint. March 2016

Invited Talks

Meaning Representation in Natural Language Tasks)   2020

Haifa University, Israel
Technion, Israel
Hebrew University, Israel
Weizmann institute, Israel
Ben-Gurion University, Israel
Bar-Ilan University, Israel

Proposition Extraction (Formulation, Crowdsourcing and Prediction)
Advanced Topics NLP Seminar, Tel-Aviv University, Israel   12/2017
Allen Institute for Artificial Intelligence, Seattle, Washington   8/2017

Leveraging External Knowledge in Different Tasks and Various Domains
University of Washington NLP seminar, Seattle, Washington   8/2017

Recognizing Mentions of Adverse Drug Reaction in Social Media Using Knowledge-Infused Recurrent Models
The Bar-Ilan Symposium on Foundations of Artificial Intelligence (BISFAI), Bar-Ilan University, Israel   7/2017

Natural Language Knowledge Representation
Nuance lab seminar, Sunnyvale, California   7/2017

Formulating, Crowdsourcing, and Predicting Better Argument Spans
UKP lab, Darmstadt University, Germany   8/2016
University of Washington NLP seminar, Seattle, Washington   8/2016
IBM Research Almaden, San Jose, California   8/2016

Open Information Extraction as Intermediate Structure for Semantic Tasks
AI2 seminar, Seattle, Washington   8/2015

Professional Activities

PROGRAM CHAIR
The Annual Meeting of the Israeli Seminar on Computational Linguistics (ISCOL)   2020

AREA CHAIR
Conference on Empirical Methods in Natural Language Processing (EMNLP)   2020

SESSION CHAIR
Conference on Empirical Methods in Natural Language Processing (EMNLP)   2019

JOURNAL REVIEWER
Transactions of the Association for Computational Linguistics (TACL)   2020 –
Computational Linguistics (CL)   2018

WORKSHOP ORGANIZER
SemEval-2019 Task 10: Math Question Answering. International Workshop on Semantic Evaluation (SemEval-2019)   2019

CONFERENCE PROGRAM COMMITTEE MEMBER (PARTIAL LIST)
Annual Meeting of the Association of Computational Linguistics (ACL)   2016–2020
North American Chapter of the Association of Computational Linguistics (NAACL)   2017–2020
Conference on Empirical Methods in Natural Language Processing (EMNLP)   2017–2019
European Chapter of the Association of Computational Linguistics (EACL)   2017
International Conference on Computational Linguistics (COLING)   2016-2019
Conference on Natural Language Learning (CoNLL)   2017-2019

WORKSHOP COMMITTEE MEMBER (PARTIAL LIST)

Workshop on Evaluating Vector Space Representations for NLP (RepEval)	2018–2019
ACL Student Research Workshop (SRW)	2018-2019
Workshop on Noisy User-generated Text	2018-2019
Methods for Optimizing and Evaluating Neural Language Generation	2019

Teaching

Seminar Instructor, NLP Seminar, University of Washington   2018-
Organized a weekly reading seminar for about 20 graduate and undergraduate students.
Chose the topics and syllabus for the seminar, and lead the discussion around research
papers.

Teaching Assistant, Text Understanding, Ben Gurion University   2015-2017
Designed and graded the course project for the Text Understanding course, under the
supervision of Prof. Ido Dagan. The project guides students in developing an alignment
based entailment system using various lexical resources (WordNet, PPDB, etc.).

Teaching Assistant, Systems Programming, Ben Gurion University   2007
Graded three large scale programming assignments of over 100 students. Under the su-
pervision of Prof. Michael Elhadad and Dr. Meni Adler.

Professional Experience

Research Intern, IBM Almaden, San Jose, California	2016
Research Intern, Allen Institute for Artificial Intelligence, Seattle, Washington	2015
Avionic Software Team Leader, IDF Air Force	2009–2013
Avionic Software Engineer, IDF Air Force	2007–2009

Technical Skills

Programming languages: Python, C/C++, Java, Matlab, Perl.
Deep learning frameworks: AllenNLP, PyTorch, DyNet.

Open Source

SOFTWARE

Evaluating Gender Bias in Machine Translation
https://github.com/gabrielStanovsky/mt_gender

Supervised Open Information Extraction
https://github.com/gabrielStanovsky/supervised-oie

NAQANET: Numerically Augmented QA-NET
https://github.com/allenai/allennlp/blob/master/allennlp/models/reading_
comprehension/naqanet.py

DATASETS

DROP: A Reading Comprehension Benchmark Requiring Discrete Reasoning Over Paragraphs
https://allennlp.org/drop

Open IE Benchmark
https://github.com/gabrielStanovsky/oie-benchmark

Predicate Paraphrases From Twitter (Chirps)
https://github.com/vered1986/Chirps

Educational Volunteer Work

Mentor, Bagrut Project   2017-2018
Mentored high-school students in NLP projects.

Languages

Hebrew	Native
English	Full proficiency
Spanish	Working proficiency