

# Gabriel Stanovsky, Curriculum Vitae, 24/10/2020

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**Contact Information**      The Hebrew University of Jerusalem      School of Computer Science and Engineering, Office A-501  
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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

**ACL Best Paper Nomination**  
Evaluating Gender Bias in Machine Translation      2019

OUTSTANDING PAPERS      **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 Fidler, Ido Dagan and Yoav Goldberg, *Intermediary Semantic Representation Through Proposition Structures*. Semantic Parsing Workshop 2014

#### Additional Publications

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

#### Invited Talks

<b>Meaning Representation in Natural Language Tasks)</b>	2020
Haifa University, Israel	
Technion, Israel	
Hebrew University, Israel	
Weizmann institute, Israel	
Ben-Gurion University, Israel	
Bar-Ilan University, Israel	
<b>Proposition Extraction (Formulation, Crowdsourcing and Prediction)</b>	
Advanced Topics NLP Seminar, Tel-Aviv University, Israel	12/2017
Allen Institute for Artificial Intelligence, Seattle, Washington	8/2017
<b>Leveraging External Knowledge in Different Tasks and Various Domains</b>	
University of Washington NLP seminar, Seattle, Washington	8/2017
<b>Recognizing Mentions of Adverse Drug Reaction in Social Media Using Knowledge-Infused Recurrent Models</b>	
The Bar-Ilan Symposium on Foundations of Artificial Intelligence (BISFAI), Bar-Ilan University, Israel	7/2017
<b>Natural Language Knowledge Representation</b>	
Nuance lab seminar, Sunnyvale, California	7/2017
<b>Formulating, Crowdsourcing, and Predicting Better Argument Spans</b>	
UKP lab, Darmstadt University, Germany	8/2016
University of Washington NLP seminar, Seattle, Washington	8/2016
IBM Research Almaden, San Jose, California	8/2016
<b>Open Information Extraction as Intermediate Structure for Semantic Tasks</b>	
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
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
JOURNAL REVIEWER	Computational Linguistics (CL)	2018
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 supervision 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](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](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