

Gabriel Stanovsky, Curriculum Vitae, September 2021

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

Center for Interdisciplinary Data Science Research Collaboration Grant 2021
Allen Institute for AI Research Gift 2020

FELLOWSHIPS

Golda Meir Fellowship Lectureship Awards 2021
Allen Institute for Artificial Intelligence Young Investigator Award 2018–2020
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] Koren Lazar, Benny Saret, Asaf Yehudai, Wayne Horowitz, Nathan Wasserman, **Gabriel Stanovsky**, *Filling the Gaps in Ancient Akkadian Texts: A Masked Language Modelling Approach*. Conference on Empirical Methods in Natural Language Processing (EMNLP2021).
- [2] Shahar Levy, Koren Lazar, **Gabriel Stanovsky**, *Collecting a Large-Scale Gender Bias Dataset for Coreference Resolution and Machine Translation*. Findings of the Conference on Empirical Methods in Natural Language Processing (EMNLP2021).

- [3] Yonatan Bitton, **Gabriel Stanovsky**, Michael Elhadad, Roy Schwartz, *Data Efficient Masked Language Modeling for Vision and Language*. Findings of the Conference on Empirical Methods in Natural Language Processing (EMNLP2021).
- [4] Arie Cattan, Alon Eirew, **Gabriel Stanovsky**, Mandar Joshi and Ido Dagan, *Realistic Evaluation Principles for Cross-document Coreference Resolution*. Joint Conference on Lexical and Computational Semantics (*SEM 2021).
- [5] Arie Cattan, Alon Eirew, **Gabriel Stanovsky**, Mandar Joshi and Ido Dagan, *Cross-document Coreference Resolution over Predicted Mentions*. Findings of the Annual Meeting of the Association of Computational Linguistics (ACL2021).
- [6] Yonatan Bitton, **Gabriel Stanovsky**, Roy Schwartz, Michael Elhadad, *Automatic Generation of Contrast Sets from Scene Graphs: Probing the Compositional Consistency of GQA*. North American Chapter of the Association of Computational Linguistics (NAACL2021).
- [7] Ronen Tamari, Fan Bai, Alan Ritter, **Gabriel Stanovsky**, *Process-Level Representation of Scientific Protocols with Interactive Annotation*. European Chapter of the Association of Computational Linguistics (EACL2021).
- [8] Tom Kocmi, Tomasz Limisiewicz, **Gabriel Stanovsky**, *Gender Coreference and Bias Evaluation at WMT 2020*. Conference on Machine Translation (WMT20).
- [9] 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).
- [10] 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).
- [11] 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).
- [12] Belinda Li, **Gabriel Stanovsky**, Luke Zettlemoyer, *Active Learning for Coreference Resolution using Discrete Annotation*. Annual Meeting of the Association of Computational Linguistics (ACL2020).
- [13] 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.**
- [14] **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).**
- [15] 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)
- [16] **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)
- [17] **Gabriel Stanovsky**, Ido Dagan, *Semantics as a Foreign Language*. Conference on Empirical Methods in Natural Language Processing (EMNLP 2018)
- [18] **Gabriel Stanovsky**, Julian Michael, Luke Zettlemoyer, Ido Dagan, *Supervised Open Information Extraction*. North American Chapter of the Association of Computational Linguistics (NAACL 2018)

- [19] 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)
- [20] **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)
- [21] Vered Shwartz, **Gabriel Stanovsky** and Ido Dagan, *Acquiring Predicate Paraphrases from News Tweets*. Joint Conference on Lexical and Computational Semantics (*SEM 2017)
- [22] **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)
- [23] 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)
- [24] **Gabriel Stanovsky** and Ido Dagan, *Creating a Large Benchmark for Open Information Extraction*. Conference on Empirical Methods in Natural Language Processing (EMNLP 2016)
- [25] 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)
- [26] **Gabriel Stanovsky** and Ido Dagan, *Annotating and Predicting Non-Restrictive Noun Phrase Modifications*. Annual Meeting of the Association of Computational Linguistics (ACL 2016)
- [27] **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)
- [28] **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

- [29] Lucy Lu Wang, Gabriel Stanovsky, Luca Weihs, Oren Etzioni, *Gender Trends in Computer Science Authorship*. Communications of the ACM, 2021. **Featured in the New York Times, Science Magazine, Fortune, GeekWire, Axios, and more.**

WORKSHOP PAPERS

- [30] Ecological Semantics: Programming Environments for Situated Language Understanding, Ronen Tamari, **Gabriel Stanovsky**, Dafna Shahaf, Reut Tsarfaty. BAICS workshop at ICLR2020.
- [31] **Gabriel Stanovsky**, and Ronen Tamari, *Y'all should read this! Identifying Plurality in Second-Person Personal Pronouns in English Texts*. Noisy User-generated Text (W-NUT 2019)
- [32] 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.**
- [33] 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)
- [34] 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)

- [35] **Gabriel Stanovsky**, Omer Levy and Ido Dagan, *Proposition Knowledge Graphs*. Workshop on Information Discovery from Text (AHA! 2016)
- [36] **Gabriel Stanovsky**, Jessica Fidler, Ido Dagan and Yoav Goldberg, *Intermediary Semantic Representation Through Proposition Structures*. Semantic Parsing Workshop 2014

Additional Publications

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

Invited Talks

- NLP in the Wild: From Ancient Akkadian to Biochemistry Protocols**
NLP seminar, Georgia Tech, USA 01/2021
- Towards Multilingual NLP via Intuitive QA**
NLP Seminar, Bar Ilan University, Israel 03/2021
CDS Seminar, Technion, Israel 01/2021
UKP lab, Darmstadt University, Germany 11/2020
- 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 Natural Language Learning (CoNLL)	2021
	Conference on Empirical Methods in Natural Language Processing (EMNLP)	2020,2021
	North American Chapter of the Association of Computational Linguistics (NAACL)	2021
ACTION EDITOR	ACL Rolling Review	2021
PUBLICATION CHAIR	Finding of Conference on Empirical Methods in Natural Language Processing (EMNLP)	2021
SESSION CHAIR	Conference on Empirical Methods in Natural Language Processing (EMNLP)	2019
JOURNAL REVIEWER	Transactions of the Association for Computational Linguistics (TACL) Computational Linguistics (CL)	2020 – 2018
WORKSHOP ORGANIZER	SemEval-2019 Task 10: Math Question Answering. International Workshop on Semantic Eval- uation (SemEval-2019)	2019
CONFERENCE PROGRAM COMMITTEE MEMBER (PARTIAL LIST)	Annual Meeting of the Association of Computational Linguistics (ACL) North American Chapter of the Association of Computational Linguistics (NAACL) Conference on Empirical Methods in Natural Language Processing (EMNLP) European Chapter of the Association of Computational Linguistics (EACL) International Conference on Computational Linguistics (COLING) Conference on Natural Language Learning (CoNLL)	2016–2020 2017–2020 2017–2019 2017 2016–2019 2017–2019
WORKSHOP COMMITTEE MEMBER (PARTIAL LIST)	Workshop on Evaluating Vector Space Representations for NLP (RepEval) ACL Student Research Workshop (SRW) Workshop on Noisy User-generated Text Methods for Optimizing and Evaluating Neural Language Generation	2018–2019 2018–2019 2018–2019 2019
Teaching	Lecturer , Advanced Practical Course in Machine Learning, Hebrew University Lecturer , NLP seminar, Hebrew University Seminar Instructor , NLP Seminar, University of Washington Teaching Assistant , Text Understanding, Bar Ilan University Teaching Assistant , Systems Programming, Ben Gurion University	2020 2020- 2018–2020 2015–2017 2007
Professional Experience	Research Intern, IBM Almaden, San Jose, California Research Intern, Allen Institute for Artificial Intelligence, Seattle, Washington Avionic Software Team Leader, IDF Air Force Avionic Software Engineer, IDF Air Force	2016 2015 2009–2013 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
Mentored high-school students in NLP projects.

2017-2018

Languages

Hebrew	Native
English	Full proficiency
Spanish	Working proficiency