

Gabriel Stanovsky, Curriculum Vitae, April 2024

Contact Information	The Hebrew University of Jerusalem gabrielstanovsky.github.io	School of Computer Science and Engineering, Office C-505 gabriel.stanovsky@mail.huji.ac.il
Academic Positions	Senior Lecturer, Hebrew University of Jerusalem Postdoctoral Scholar, University of Washington Postdoctoral Scholar, Allen Institute for Artificial Intelligence Hosts: Prof. Luke Zettlemoyer, Prof. Noah Smith	2020 – Present 2018–2020 2018–2020
Education	Ph.D., Computer Science Advisor: Prof. Ido Dagan Thesis title: “Extracting and Representing Knowledge from Texts” Bar-Ilan University M.Sc. <i>magna cum laude</i> in Computer Science Advisor: Prof. Michael Elhadad Thesis title: “Hebrew Paraphrase Identification” Ben Gurion University B.Sc. in Computer Science Undergraduate project: “Speech Synthesis” Advisor: Prof. Shlomi Dolev Ben Gurion University	2014–2018 2009–2012 2004–2007
Awards and Scholarships		
GRANTS	Ministry of Science and Technology Innovation Grant for Computational Creativity Ministry of Science and Technology Innovation Grant for Medical Applications in Hebrew Council for Higher Education Center for Interdisciplinary Data Science Research Collaboration Grant Allen Institute for AI Research Gift	2022-2025 2022-2025 2022-2026 2021-2024 2020,2021
FELLOWSHIPS	The Young Scholars Forum in the Humanities and Social Sciences Golda Meir Fellowship Lectureship Awards Allen Institute for Artificial Intelligence Young Investigator Award IBM Ph.D. Fellowship award	2023-2024 2021 2018-2020 2015-2016
OUTSTANDING PAPERS	NAACL Outstanding Paper A Balanced Data Approach for Evaluating Cross-Lingual Transfer: Mapping the Linguistic Blood Bank Neurips Datasets and Benchmarks Featured Presentation Winogavil: Gamified association benchmark to challenge vision-and-language models ACL Best Paper Nomination Evaluating Gender Bias in Machine Translation CoNLL Honorable Mention On the Limits of Learning to Actively Learn Semantic Representations MRQA Best Workshop Paper Evaluating Question Answering Evaluation	2022 2022 2019 2019 2019
TEACHING AWARDS	Hebrew University Rector Award (top 10% of teachers)	2022

OUTSTANDING REVIEWER	North American Chapter of the Association of Computational Linguistics (NAACL). 2019 61;3/20;CORE rank: A
	Annual Meeting of the Association of Computational Linguistics (ACL). 106;1/20;CORE rank: A* 2017, 2018
	Conference on Empirical Methods in Natural Language Processing (EMNLP). 2018 88;2/20;CORE rank: A
M.SC. AWARDS	Graduated with honors (<i>magna cum laude</i>) 2012

Peer-reviewed Publications

Note: Conferences are the main publication forum in Natural Language Processing. The leading conferences of the field (e.g., ACL, NAACL, EMNLP, CoNLL and COLING) are highly competitive with acceptance rates typically no higher than 25%. All papers below were peer-reviewed.

Conference Papers

- [1] Nitzan Bitton-Guetta, Yonatan Bitton, Jack Hessel, Ludwig Schmidt, Yuval Elovici, **Gabriel Stanovsky**, Roy Schwartz, *WHOOOPS! A Vision-and-Language Commonsense Benchmark of Heterogeneous Objects and Situations*. International Conference on Computer Vision (ICCV 2023)225;3/20; CORE rank: A*.
- [2] Bar Iluz, Tomasz Limisiewicz, Gabriel Stanovsky, David Marecek, *Exploring the Impact of Training Data Distribution and Subword Tokenization on Gender Bias in Machine Translation*. Annual Meeting of the Asia-Pacific Chapter of the Association for Computational Linguistics (AACL2023)106;1/20; CORE rank: A.
- [3] Yonatan Bitton, Ron Yosef, Eli Strugo, Dafna Shahaf, Roy Schwartz, **Gabriel Stanovsky**, *VASR: Visual Analogies of Situation Recognition*. Annual Conference of the Association for the Advancement of Artificial Intelligence (AAAI 2023). 212;4/20; CORE rank: A*.
- [4] Catherine Chen, Zejiang Shen, Dan Klein, **Gabriel Stanovsky**, Doug Downey, Kyle Lo, *Are Layout-Infused Language Models Robust to Layout Distribution Shifts? A Case Study with Scientific Documents*. Findings of Annual Meeting of the Association of Computational Linguistics (ACL2023). 106;1/20;CORE rank: A*.
- [5] Gili Lior, **Gabriel Stanovsky**, *Comparing Humans and Models on a Similar Scale: Towards Cognitive Gender Bias Evaluation in Coreference Resolution*. Annual Conference of the Cognitive Science Society (CogSci 2023). 32; CORE rank: A.
- [6] Asaf Yehudai, Arie Cattan, Omri Abend, **Gabriel Stanovsky**, *Evaluating and Improving the Coreference Capabilities of Machine Translation Models*. European Chapter of the Association of Computational Linguistics (EACL2023). 36;8/20;CORE rank: A.
- [7] Uri Berger, Lea Frermann, **Gabriel Stanovsky**, Omri Abend, *A Large-Scale Multilingual Study of Visual Constraints on Linguistic Selection of Descriptions*. Findings of European Chapter of the Association of Computational Linguistics (EACL2023). 36;8/20;CORE rank: A.
- [8] Yonatan Bitton, Nitzan Bitton Guetta, Ron Yosef, Yuval Elovici, Mohit Bansal, **Gabriel Stanovsky**, Roy Schwartz, *Winogavil: Gamified association benchmark to challenge vision-and-language models*. Neural Information Processing Systems (NeurIPS2022) 309;1/20;CORE rank: A*. **Selected as Featured Presentation..**
- [9] Keshav Kolluru, **Gabriel Stanovsky**, Mausam, *Covid vaccine is against Covid but Oxford vaccine is made at Oxford! Semantic Interpretation of Proper Noun Compounds*. Conference on Empirical Methods in Natural Language Processing (EMNLP2022). 88;2/20;CORE rank: A.
- [10] Daniel Khashabi, **Gabriel Stanovsky**, Jonathan Bragg, Nicholas Lourie, Jungo Kasai, Yejin Choi, Noah A. Smith, Daniel S. Weld, *GENIE: A Leaderboard for Human-in-the-Loop Evaluation of Text Generation*. Conference on Empirical Methods in Natural Language Processing (EMNLP2022). 88;2/20;CORE rank: A.
- [11] Uri Berger, **Gabriel Stanovsky**, Omri Abend, Lea Frermann, *A Computational Acquisition Model for Multimodal Word Categorization*. North American Chapter of the Association of Computational Linguistics (NAACL2022). 61;3/20;CORE rank: A.

- [12] Dan Malkin, Tomasz Limisiewicz, **Gabriel Stanovsky**, *A Balanced Data Approach for Evaluating Cross-Lingual Transfer: Mapping the Linguistic Blood Bank*. North American Chapter of the Association of Computational Linguistics (NAACL2022). 61;3/20;CORE rank: A **Won an Outstanding Paper Award**.
- [13] Roy Schwartz, **Gabriel Stanovsky**, *On the Limitations of Dataset Balancing: The Lost Battle Against Spurious Correlations*. Findings of North American Chapter of the Association of Computational Linguistics (NAACL2022). 61;3/20;CORE rank: A.
- [14] 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). 88;2/20;CORE rank: A.
- [15] Yonatan Bitton, **Gabriel Stanovsky**, Michael Elhadad, Roy Schwartz, *Data Efficient Masked Language Modeling for Vision and Language*. Findings of Conference on Empirical Methods in Natural Language Processing (EMNLP2021). 88;2/20;CORE rank: A.
- [16] Shahar Levy, Koren Lazar, **Gabriel Stanovsky**, *Collecting a Large-Scale Gender Bias Dataset for Coreference Resolution and Machine Translation*. Findings of Conference on Empirical Methods in Natural Language Processing (EMNLP2021). 88;2/20;CORE rank: A.
- [17] 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).
- [18] Arie Cattan, Alon Eirew, **Gabriel Stanovsky**, Mandar Joshi and Ido Dagan, *Cross-document Coreference Resolution over Predicted Mentions*. Findings of Annual Meeting of the Association of Computational Linguistics (ACL2021). 106;1/20;CORE rank: A*.
- [19] 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). 61;3/20;CORE rank: A.
- [20] 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). 36;8/20;CORE rank: A.
- [21] 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). 88;2/20;CORE rank: A.
- [22] 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). 106;1/20;CORE rank: A*.
- [23] 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). 106;1/20;CORE rank: A*.
- [24] Belinda Li, **Gabriel Stanovsky**, Luke Zettlemoyer, *Active Learning for Coreference Resolution using Discrete Annotation*. Annual Meeting of the Association of Computational Linguistics (ACL2020). 106;1/20;CORE rank: A*.
- [25] 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). 34;10/20 **Received an Honorable Mention award**.
- [26] **Gabriel Stanovsky**, Noah A. Smith, Luke Zettlemoyer, *Evaluating Gender Bias in Machine Translation*. Annual Meeting of the Association of Computational Linguistics (ACL 2019). 106;1/20;CORE rank: A* **Nominated for Best Short Paper (top 1% of all submissions)**.

- [27] 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). 61;3/20;CORE rank: A
- [28] **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). 88;2/20;CORE rank: A
- [29] **Gabriel Stanovsky**, Ido Dagan, *Semantics as a Foreign Language*. Conference on Empirical Methods in Natural Language Processing (EMNLP 2018). 88;2/20;CORE rank: A
- [30] **Gabriel Stanovsky**, Julian Michael, Luke Zettlemoyer, Ido Dagan, *Supervised Open Information Extraction*. North American Chapter of the Association of Computational Linguistics (NAACL 2018). 61;3/20;CORE rank: A
- [31] 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). 61;3/20;CORE rank: A
- [32] **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). 106;1/20;CORE rank: A*
- [33] Vered Shwartz, **Gabriel Stanovsky** and Ido Dagan, *Acquiring Predicate Paraphrases from News Tweets*. Joint Conference on Lexical and Computational Semantics (*SEM 2017)
- [34] **Gabriel Stanovsky**, Daniel Gruhl and Pablo 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). 36;8/20;CORE rank: A
- [35] 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). 41;7/20
- [36] **Gabriel Stanovsky** and Ido Dagan, *Creating a Large Benchmark for Open Information Extraction*. Conference on Empirical Methods in Natural Language Processing (EMNLP 2016). 88;2/20;CORE rank: A
- [37] 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). 88;2/20;CORE rank: A
- [38] **Gabriel Stanovsky** and Ido Dagan, *Annotating and Predicting Non-Restrictive Noun Phrase Modifications*. Annual Meeting of the Association of Computational Linguistics (ACL 2016). 106;1/20;CORE rank: A*
- [39] **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). 106;1/20;CORE rank: A*
- [40] **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). 106;1/20;CORE rank: A*

Journal papers

- [1] 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

- [1] Eliya Habba, Renana Keydar, Dan Bareket, **Gabriel Stanovsky**, *The Perfect Victim: Computational Analysis of Judicial Attitudes towards Victims of Sexual Violence*. International Conference on AI and Law (ICAIL 2023).
- [2] Tomasz Limisiewicz, Dan Malkin, **Gabriel Stanovsky**, *You Can Have Your Data and Balance It Too: Towards Balanced and Efficient Multilingual Models*. Workshop on Research in Computational Linguistic Typology and Multilingual NLP (SIGTYP 2023).
- [3] Mohr Wenger, Tom Kalir, Noga Berger, Carmit Chalamish, Renana Keydar, **Gabriel Stanovsky**, *Automated Extraction of Sentencing Decisions from Court Cases in the Hebrew Language*. Workshop on Natural Legal Language Processing (NLLP 2021).
- [4] Tom Kocmi, Tomasz Limisiewicz, **Gabriel Stanovsky**, *Gender Coreference and Bias Evaluation at WMT 2020*. Conference on Machine Translation (WMT20).
- [5] Ecological Semantics: Programming Environments for Situated Language Understanding, *Ronen Tamari*, **Gabriel Stanovsky**, *Dafna Shahaf*, *Reut Tsarfaty*. BAICS workshop at ICLR2020.
- [6] **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)
- [7] 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**.
- [8] 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). 49;4/20
- [9] 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)
- [10] **Gabriel Stanovsky**, Omer Levy and Ido Dagan, *Proposition Knowledge Graphs*. Workshop on Information Discovery from Text (AHA! 2016)
- [11] **Gabriel Stanovsky**, Jessica Fidler, Ido Dagan and Yoav Goldberg, *Intermediary Semantic Representation Through Proposition Structures*. Semantic Parsing Workshop 2014

Professional Activities

PROGRAM CHAIR

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

AREA CHAIR

Conference on Natural Language Learning (CoNLL). 34;10/20 2021

Conference on Empirical Methods in Natural Language Processing (EMNLP). 2020,2021 88;2/20;CORE rank: A

North American Chapter of the Association of Computational Linguistics (NAACL). 2021 61;3/20;CORE rank: A

ACTION EDITOR

ACL Rolling Review 2021

PUBLICATION CHAIR

Finding of Conference on Empirical Methods in Natural Language Processing (EMNLP). 2021 88;2/20;CORE rank: A

SESSION CHAIR

Conference on Empirical Methods in Natural Language Processing (EMNLP). 88;2/20;CORE 2019 rank: A

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). 49;4/20	2019
CONFERENCE PROGRAM COMMITTEE MEMBER (PARTIAL LIST)	Annual Meeting of the Association of Computational Linguistics (ACL). 106;1/20;CORE rank: A*	2016–2020
	North American Chapter of the Association of Computational Linguistics (NAACL). 61;3/20;CORE rank: A	2017–2020
	Conference on Empirical Methods in Natural Language Processing (EMNLP). 88;2/20;CORE rank: A	2017–2019
	European Chapter of the Association of Computational Linguistics (EACL). 36;8/20;CORE rank: A	2017
	International Conference on Computational Linguistics (COLING). 41;7/20	2016–2019
	Conference on Natural Language Learning (CoNLL). 34;10/20	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		
	Lecturer , Introduction to Machine Learning, Hebrew University, 500+ undergraduate students	2021 -
	Lecturer , Advanced NLP, Hebrew University 80 graduate students	2022 -
	Lecturer , NLP seminar, Hebrew University, 20 graduate students	2020-
	Lecturer , Advanced Practical Course in Machine Learning, Hebrew University, 100 graduate students	2020
	Seminar Instructor , NLP Seminar, University of Washington	2018–2020
	Teaching Assistant , Text Understanding, Bar Ilan University	2015–2017
	Teaching Assistant , Systems Programming, Ben Gurion University	2007
Advisees		
PhD.	Yonatan Bitton	2023
MSc.	Dan Malkin, Gili Lior, Bar Tamir, Bar Eluz	2022
	Koren Lazar, Eran Nussinovitch, Sapir Weissbuch	2021

Invited Talks

Multilingual Zero-Shot Transfer in Low-Resource Settings	
Keynote at the Workshop on Ancient Language Processing, Bulgaria	2023
NLP seminar, Weizmann Institute, Israel	2023
NLP seminar, Charles University, Czech Republic	2022
NLP in the Wild: From Ancient Akkadian to Biochemistry Protocols	
NLP seminar, Georgia Tech, USA	2021
Towards Multilingual NLP via Intuitive QA	
NLP Seminar, Bar Ilan University, Israel	2021
CDS Seminar, Technion, Israel	2021
UKP lab, Darmstadt University, Germany	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	2017
Allen Institute for Artificial Intelligence, Seattle, Washington	2017
Leveraging External Knowledge in Different Tasks and Various Domains	
University of Washington NLP seminar, Seattle, Washington	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	2017
Natural Language Knowledge Representation	
Nuance lab seminar, Sunnyvale, California	2017
Formulating, Crowdsourcing, and Predicting Better Argument Spans	
UKP lab, Darmstadt University, Germany	2016
University of Washington NLP seminar, Seattle, Washington	8/2016
IBM Research Almaden, San Jose, California	2016
Open Information Extraction as Intermediate Structure for Semantic Tasks	
AI2 seminar, Seattle, Washington	2015

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

Educational Volunteer Work

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

Languages

Hebrew	Native
English	Full proficiency
Spanish	Working proficiency