GABRIEL STANOVSKY

PERSONAL INFORMATION

Born in Israel, 23 September 1986

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EDUCATION

2018-2021(Expected) University of Washington and AI2

Postdoctoral Researcher

Joint position at the University of Washington (host: Prof. Luke Zettlemoyer) and at the Allen Institute for Artificial Intelligence.

2014-2018 Bar-Ilan University

Doctor of Philosophy

Thesis title: *Extracting and Representing Knowledge from Texts.*
Research in computational linguistics at Bar-Ilan's NLP lab, under the supervision of Prof. Ido Dagan.

2009-2012 Ben Gurion University

Master of Science

Graduated with Honors (Thesis Overall Grade: 97; Thesis Defense Grade: 100)
Thesis title: *Hebrew Paraphrase Identification*
Conducted research in the field of Hebrew natural language processing, under the supervision of Prof. Michael Elhadad.

2004-2007 Ben Gurion University

Bachelor of Science (Academic Reserve)

Undergraduate Project: *Saya Speech Synthesis*
Integrated compatible speech gestures for the department robot receptionist, under the supervision of Prof. Shlomi Dolev and Michael Orlov.

FELLOWSHIPS AND AWARDS

2018 – 2021 Allen Institute for Artificial Intelligence Young Investigator Award

2015 – 2016 IBM Ph.D. Fellowship award

WORK EXPERIENCE

2016 Research Intern

IBM Research

Summer internship in San Jose, California, under the supervision of Pablo Mendes and Daniel Gruhl. Designed recurrent models which integrate external knowledge from Wikipedia to identify adverse drug reaction mentions in patient narratives. This work appeared as a long paper in the proceedings of EACL 2017.

2015 Research Intern

Allen Institute for Artificial Intelligence (AI2)

Summer internship in Seattle, Washington, at AI2's Euclid team under the supervision of Mark Hopkins. Explored the use of cascading tree transducers to solve geometric problems consisting of text and accompanying diagrams.

2015 - 2018 Teaching Assistant

Bar-Ilan University

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.).

2011 – 2013 Avionic Software Team Leader

Israeli Air Force

Led a team of 4 engineers in the development of an encoder-decoder software product. The team implemented advanced and self-tailored compression and decompression algorithms. The implementation had to conform to rigid standards: embedded, hard real time, portable and lightweight.

2009 – 2011 Avionic Software Team Leader

Israeli Air Force

Led a team of 3 engineers in the software development of an airborne aircraft. Designed and implemented various improvements to reduce run time and memory usage.
Received the unit's excellence award for the performance in this position

2007 – 2009 Avionic Software Developer

Israeli Air Force

Worked as part of a team of 4 engineers which developed an embedded real-time abstraction over the operating system of an airborne aircraft. This work was performed under extremely limiting and challenging computational resources.

2007 Academic Grader

Ben Gurion University

Worked as a grader for the 2007 Systems Programming course. Graded three large scale programming assignments of over 100 students. Under the supervision of Prof. Michael Elhadad and Dr. Meni Adler.

PUBLICATIONS

1. *Evaluating Gender Bias in Machine Translation*

   Gabriel Stanovsky, Noah A. Smith, Luke Zettlemoyer

   ACL, Florence, Italy, 2019.

2. *DROP: A Reading Comprehension Benchmark Requiring Discrete Reasoning Over Paragraphs*

   Dheeru Dua, Yizhong Wang, Pradeep Dasigi, **Gabriel Stanovsky**, Sameer Singh and Matt Gardner

   NAACL, Minneapolis, USA, 2019.

3. *SemEval-2019 Task 10: Math Question Answering*

   Mark Hopkins, Ronan Le Bras, Cristian Petrescu-Prahova, **Gabriel Stanovsky**, Hannaneh Hajishirzi and Rik Koncel-Kedziorski

   SEMEVAL, Minneapolis, USA, 2019.

4. *Spot the Odd Man Out; Exploring the Associative Power of Lexical Resources*

   Gabriel Stanovsky, Mark Hopkins

   EMNLP, Brussels, Belgium, 2018.

5. *Semantics as a Foreign Language*

   Gabriel Stanovsky, Ido Dagan

   EMNLP, Brussels, Belgium, 2018.

6. *Supervised Open Information Extraction*

   Gabriel Stanovsky, Julian Michael, Luke Zettlemoyer, Ido Dagan

   NAACL, New Orleans, USA, 2018.

7. *Crowdsourcing Question-Answer Meaning Representations*

   Julian Michael, **Gabriel Stanovsky**, Luheng He, Ido Dagan, Luke Zettlemoyer

   NAACL, New Orleans, USA, 2018.

8. *Integrating Deep Linguistic Features in Factuality Prediction over Unified Datasets*

   Gabriel Stanovsky, Judith Eckle-Kohler, Yevgeniy Puzikov, Ido Dagan and Iryna Gurevych

   ACL, Vancouver, Canada. July 2017.

9. *Acquiring Predicate Paraphrases from News Tweets*

   Vered Shwartz, **Gabriel Stanovsky**, Ido Dagan

   STARSEM, Vancouver, Canada. July 2017.

10. *A Consolidated Open Knowledge Representation for Multiple Texts*

    Rachel Wities, Vered Shwartz, **Gabriel Stanovsky**, Meni Adler, Ori Shapira, Shyam Upadhyay, Dan Roth, Eugenio Martinez Camara, Iryna Gurevych and Ido Dagan

    EACL, LSDSem workshop, Valencia, Spain. April 2017.

11. *Recognizing Mentions of Adverse Drug Reaction in Social Media Using Knowledge-Infused Recurrent Models*

    Gabriel Stanovsky, Daniel Gruhl and Pablo N. Mendes

    EACL, Valencia, Spain. April 2017.

12. *Modeling Extractive Sentence Intersection via Subtree Entailment*

    Omer Levy, Ido Dagan, **Gabriel Stanovsky**, Judith Eckle-Kohler and Iryna Gurevych

    COLING, Osaka, Japan. December 2016.

13. *Creating a Large Benchmark for Open Information Extraction*

    Gabriel Stanovsky and Ido Dagan

    EMNLP, Austin, Texas, USA. August 2016.

14. *Porting an Open Information Extraction System from English to German*

    Tobias Falke, **Gabriel Stanovsky**, Iryna Gurevych and Ido Dagan

    EMNLP, Austin, Texas, USA. August 2016.

15. *Annotating and Predicting Non-Restrictive Noun Phrase Modifications*

    Gabriel Stanovsky and Ido Dagan

    ACL, Berlin, Germany. August 2016.

16. *Specifying and Annotating Reduced Argument Span Via QA-SRL*

    Gabriel Stanovsky, Ido Dagan and Meni Adler

    ACL, Berlin, Germany. August 2016.

17. *Getting More Out Of Syntax with PropS*

    Gabriel Stanovsky, Jessica Ficler, Ido Dagan, Yoav Goldberg

    arXiv preprint. March 2016.

18. *Open IE as an Intermediate Structure for Semantic Tasks*

    Gabriel Stanovsky, Ido Dagan and Mausam

    ACL-IJCNLP, Beijing, China. July 2015.

19. *Proposition Knowledge Graphs*

    Gabriel Stanovsky, Omer Levy and Ido Dagan

    COLING, AHA workshop, Dublin, Ireland. August 2014.

20. *Intermediary Semantic Representation Through Proposition Structures*

    Gabriel Stanovsky, Jessica Ficler, Ido Dagan and Yoav Goldberg

    ACL, Semantic Parsing Workshop, Baltimore, Maryland, USA. June 2014.

INVITED TALKS

- Proposition Extraction (Formulation, Crowdsourcing and Prediction)
  - November 2017, Advanced Topics NLP Seminar, Tel-Aviv University, Israel.
  - August 2017, AI2, Seattle, Washington.
- Leveraging External Knowledge in Different Tasks and Various Domains
  - August 2017, University of Washington NLP seminar, Seattle, Washington.
- Recognizing Mentions of Adverse Drug Reaction in Social Media Using Knowledge-Infused Recurrent Models
  - June 2017, The Bar-Ilan Symposium on Foundations of Artificial Intelligence (BISFAI), Bar-Ilan University, Israel.
- Natural Language Knowledge Representation
  - August 2016, Nuance lab seminar, Sunnyvale, California.
- Formulating, Crowdsourcing, and Predicting Better Argument Spans
  - August 2016, UKP lab, Darmstadt University, Germany.
  - July 2016, University of Washington NLP seminar, Seattle, Washington.
  - July 2016, IBM Research Almaden, San Jose, California.
- Open Information Extraction as Intermediate Structure for Semantic Tasks
  - August 2015, AI2 seminar, Seattle, Washington.

ACADEMIC PROFESSIONAL ACTIVITIES

- Session Chair (EMNLP 2018)
- Workshop organizer – SemEval 2019, Task 10, Math Question Answering
- Reviewer for: CL journal (2018), ACL(2016 –), EMNLP(2016 –), EACL(2017 –), AAAI (2018), IJCNLP (2019), COLING(2016 –), CoNLL(2017 –), RepEval(2016 –).

COMPUTER SKILLS

Operating Systems — Unix\Linux (C Shell, Bash), Microsoft Windows, MIL-STD-1750A.

Communication Protocols — TCP, UDP, MIL-STD-1553.

Computer Languages — Python, Scala, Perl, C\++, Java, Ada, 8086 assembly, and more.

OTHER INFORMATION

Languages

- HEBREW · Native.
- ENGLISH · Full professional proficiency.
- SPANISH · Professional working proficiency.

May 31, 2019