

Roe Aharoni

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Google Scholar: <http://scholar.google.com/citations?user=wV0mHWgAAAAJ>

Main Qualifications

- Main interests: natural language processing (NLP), machine learning.
- Experienced in software engineering, project management, team leadership.
- Lecturer and researcher, published author in top-tier academic NLP conferences.

Education

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| 2016–2020 | Ph.D in Computer Science, Natural Language Processing Lab, Bar Ilan University, Israel. <i>Advisor: Prof. Yoav Goldberg.</i>
Thesis: Topics in Sequence-to-Sequence Learning for Natural Language Processing
Research Interests: Deep Learning, Machine Translation, NLP for Morphologically-Rich Languages. |
| 2011–2014 | M.Sc in Computer Science, specialization in Machine Learning and Natural Language Processing (NLP), Bar Ilan University, Israel. <i>Advisor: Prof. Moshe Koppel.</i>
Dissertation project: Automatic Detection of Machine Translated Text and Translation Quality Estimation. Published as a conference paper in ACL 2014. |
| 2003–2008 | B.Sc in Computer Science, specialization in Signal Processing (Academy Before Army program, started at the age of 15), School of Computer Science, The College of Management, Israel.
Graduated: Cum Laude |

Selected Publications

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| 2020 | Unsupervised Domain Clusters in Pretrained Language Models
Roe Aharoni, Yoav Goldberg
ACL 2020 |
| 2019 | Massively Multilingual Neural Machine Translation
Roe Aharoni, Melvin Johnson and Orhan Firat
NAACL 2019 |
| 2018 | Split and Rephrase: Better Evaluation and a Stronger Baseline
Roe Aharoni & Yoav Goldberg
ACL 2018 |
| 2017 | Towards String-to-Tree Neural Machine Translation
Roe Aharoni & Yoav Goldberg
ACL 2017 |
| 2017 | Morphological Inflection Generation with Hard Monotonic Attention
Roe Aharoni & Yoav Goldberg
ACL 2017 |
| 2014 | Automatic Detection of Machine Translated Text and Translation Quality Estimation
Roe Aharoni, Moshe Koppel and Yoav Goldberg
ACL 2014 |

Honors and Awards

2021	Israeli Association for Artificial Intelligence, Runner-up for Best Phd Thesis Award.
2016	Bar Ilan University, The President's Scholarship for Outstanding Phd Candidates.
2015	Israel Defense Forces, Head of Intelligence Corps Award for Creative Thinking.
2014	Bar Ilan University, Department of Computer Science, Research Excellence Grant.
2013	Israel Defense Forces, "Mekor Chaim" Award for Outstanding Technological Projects.
2007–2008	College of Management, School of Computer Science, Dean's List.
2006–2007	College of Management, School of Computer Science, Dean's List.
2005–2006	College of Management, School of Computer Science, Dean's List.

Professional Activities

Senior area chair, Question Answering track, EMNLP 2023. Organizer, ACL DialDoc 2023 workshop. Organizer, ISCOL 2022 Conference. Area chair, Language Modeling and Seq-to-Seq Models, NAACL 2021. Took part as program committee in TACL, ACL, EMNLP, NAACL, CoNLL, EACL, ACL SRW, WNMT/WNGT, NeuralGen, EurNLP. Founder, Israeli NLP meetup (3500+ members).

Relevant Employment

4/2023- Present	Staff Research Scientist, Google Google Research, Tel Aviv, Israel.
4/2022- 4/2023	Senior Research Scientist, Google Google Research, Tel Aviv, Israel.
3/2020- 4/2022	Research Scientist, Google Google Research, Tel Aviv, Israel.
3/2020- Present	Adjunct Lecturer, Bar-Ilan University Computer Science department, teaching a graduate course on machine translation.
11/2018- 03/2020	Student Researcher, Google Student researcher in Google AI, Tel Aviv, Israel.
06/2018- 09/2018	Software Engineering Intern, Google Research intern in Google Translate, Mountain View, California.
03/2017- 07/2019	Teaching Assistant, Bar-Ilan University Object Oriented Programming. Average student feedback score: 4.59/5.
10/2013- 12/2015	Research Team Leader, Israel Defense Forces Led a team of researchers and engineers focused on Machine Translation.
08/2012- 10/2013	Software Team Leader, Israel Defense Forces Led a software development team responsible for a large scale data mining project.
12/2008- 08/2012	Software Developer, Israel Defense Forces Software developer and tech lead.