

Roe Aharoni

Phone: +972 54 9232992 **Email:** roee.aharoni@gmail.com
Homepage: www.roeeaharoni.com **Github:** github.com/roeeaharoni

Main Qualifications

- Main interests: natural language processing (NLP), machine learning.
- Experienced in software engineering and project management, strong team player.
- Proven record in NLP research, published author in top-tier academic NLP conferences.

Education

- | | |
|------------------|---|
| 2016–2020 | Ph.D in Computer Science, Natural Language Processing Lab, Department of Computer Science, Bar Ilan University, Israel. <i>Advisor: Prof. Yoav Goldberg.</i>
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), Department of Computer Science, 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

- | | |
|-------------|---|
| 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

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

Served as program committee for the following NLP conferences and workshops: ACL (2018, 2019, 2020), EMNLP (2018, 2019), CoNLL (2017, 2018, 2019), ACL SRW (2018, 2019), WNMT/WNGT: The workshop on neural machine translation and generation (2018, 2019), NeuralGen: The workshop on methods for optimizing and evaluating neural language generation (2019), EurNLP (2019). Founded the Israeli NLP meetup group (2000+ members).

Relevant Employment

3/2020- Present	Research Scientist, Google Research Scientist in Google Research, Tel Aviv, Israel.
3/2020- Present	External Lecturer, Bar-Ilan University Computer Science department, teaching a new 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.
01/2011- 08/2012	Lead Software Developer, Israel Defense Forces Led the technical aspect of several projects in a software innovation lab.
12/2008- 08/2010	Software Developer, Israel Defense Forces Was part of a client and server software infrastructure team, developing API's for large scale distributed systems.

Miscellaneous

Citizenship	Israeli
Languages	Hebrew (native), English (fluent), Arabic (basic)