

Roe Aharoni

Phone: +972 54 9232992 **Email:** roee.aharoni@gmail.com
Homepage: www.roeeaharoni.com **Github:** github.com/roeeaharoni
Address: 39 Shimon Avidan Street, Rishon Lezion, Israel

Main Qualifications

- Main interests: Natural Language Processing, Machine Learning.
- Experienced in large software project management, strong team player.
- Acquired knowledge in a wide range of software research and development areas.

Education

2016– Present	Ph.D in Computer Science, Natural Language Processing Lab, Department of Computer Science, Bar Ilan University, Israel. Advisor: Dr. Yoav Goldberg. 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. Advisor: Prof. Moshe Koppel. Dissertation project: Automatic Detection of Machine Translated Text and Translation Quality Estimation. Thesis focused on creating an automatic system which predicts machine translation quality using text classification approaches. Published as a conference paper in ACL 2014. Main courses: Introductory to Machine Learning, Machine Translation, Introductory to Natural Language Processing, Probabilistic Graphical Models, Basic and Advanced Artificial Intelligence.
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 Main Courses: Digital Signal Processing, Digital Video Processing.

Publications

2017	Towards String-to-Tree Neural Machine Translation Roe Aharoni & Yoav Goldberg ACL 2017 Morphological Inflection Generation with Hard Monotonic Attention Roe Aharoni & Yoav Goldberg ACL 2017
2016	Improving Sequence to Sequence Learning for Morphological Inflection Generation: The BIU-MIT Systems for the SIGMORPHON 2016 Shared Task for Morphological Reinflection Roe Aharoni, Yonatan Belinkov, Yoav Goldberg SIGMORPHON workshop in ACL 2016 (shared task submission, 2nd place out of 9)
2014	Automatic Detection of Machine Translated Text and Translation Quality Estimation Roe Aharoni, Moshe Koppel, 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 Prize for Creative Thinking.
2014	Bar Ilan University, Department of Computer Science, Grant for Excellence in Research.
2013	Israel Defense Forces, "Mekor Chaim" Prize 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.

Relevant Employment

01/2016- Present	Computer Science Phd Candidate, Bar-Ilan University Deep Learning for Natural Language Processing, Machine Translation.
03/2017- Present	Teaching Assistant, Bar-Ilan University Object Oriented Programming class led by Dr. Yoav Goldberg.
10/2013- 12/2015	Research Team Leader, Israel Defense Forces. Led a team of researchers and engineers focused on Machine Translation, Natural Language Processing and Information Retrieval projects.
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 details and architecture 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.

Technical Skills

Advanced	Python, C#, SQL
Good	Java, LaTeX
Basic	C/C++, Linux, Bash scripting, Web Development

Miscellaneous

Year of Birth	1989
Citizenship	Israeli
Hobbies	Music (Production, Guitar), Yoga (Certified Teacher), Running, Cycling

Languages

Native	Hebrew
Fluent	English
Basic	Arabic