Roy Schwartz, July 2015

Contact Information

School of Computer Science and Engineering
The Hebrew University of Jerusalem
Edmond Safra Campus, Givat Ram
Jerusalem, Israel

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Research Interests

Natural Language Processing and Computational Linguistics. Specifically: Semantic representation of words, multiword expressions and sentences; Patterns technology; Parsing; Social Media.

Education

The Hebrew University of Jerusalem, 2011–2016 (expected graduation)
Ph.D., School of Computer Science and Engineering
Advisor: Professor Ari Rappoport
Thesis title: "Feature-based Semantic Representation"

The Hebrew University of Jerusalem, 2009–2011
M.Sc. (**Magna Cum Laude**) in Computer Science
Advisor: Professor Ari Rappoport
Final M.Sc. grade: 97.4/100; M.Sc. thesis grade: 98/100

The Hebrew University of Jerusalem, 2005–2008
B.Sc. (**Magna cum laude**) in Computer Science and Cognitive Science
Member of the Amirim Program for outstanding undergraduate students
Course Average: 96.1/100

Peer-Reviewed Publications

R. Schwartz, R. Reichart, A. Rappoport, *Symmetric Pattern Based Word Embeddings for Improved Word Similarity Prediction.* CoNLL 2015

D. Rubinstein, E. Levi, **R. Schwartz**, A. Rappoport, *How Well Do Distributional Models Capture Different Types of Semantic Knowledge?* ACL 2015 (short paper)

R. Schwartz, R. Reichart, A. Rappoport, *Minimally Supervised Classification to Semantic Categories using Automatically Acquired Symmetric Patterns.* Coling 2014

R. Schwartz, O. Tsur, A. Rappoport, M. Koppel, *Authorship Attribution of Micro-Messages.* EMNLP 2013

R. Schwartz, O. Abend, A. Rappoport, *Learnability-based Syntactic Annotation Design.* Coling 2012

R. Schwartz, O. Abend, R. Reichart, A. Rappoport, *Neutralizing Linguistically Problematic Annotations in Unsupervised Dependency Parsing Evaluation.* ACL 2011

Awards and Scholarships

The Harry and Sylvia Hoffman Leadership and Responsibility Program for outstanding Ph.D. students (2011–2014; $45,000)

Ranked first in the School of Computer Science **student evaluation survey** (2012)

Leibniz award for excellent computer science students (2011; $10,000)

Prize for excellent M.Sc. students based on academic achievements (2010,2011)

School of Computer Science scholarship for outstanding M.Sc. students (2010)

Dean list for academic achievements (2007,2008)

Dean prize for academic achievements (2006)

Invited Talks

Semantic Knowledge Acquisition using Frequency Based Patterns
Catalonia-Israel Symposium on Lexical Semantics and Grammatical Structure (2015/02)

Identifying Authorships of very Short Texts using Flexible Patterns
Intel Inc. Haifa, ICRI-CI Retreat (2014/05)

Semantic Representation using Flexible Patterns
Berkeley, Natural Language Processing Group Seminar (2013/10)
Stanford, Natural Language Processing Group Seminar (2013/10)
USC Information Sciences Institute, Natural Language Processing Group Seminar (2013/10)
Twitter Inc., Technological Talk (2013/10)
Intel Inc. Santa Clara, Natural Language Processing Group Seminar (2013/10)
IBM Research Tel Aviv, Machine Learning and Data Mining Group Seminar (2013/10)

Professional Activities

Program committee member in ACL (2013–2015), EMNLP (2013,2015), ACL-NLPSD (2014)

Teaching

Lecturer, Object Oriented Programming on HUJI-**Coursera**, 2014–2015
Primary instructor of the **first ever online course** at the school of computer science and engineering at the Hebrew University. In charge of designing, building and recording online lectures for the main undergraduate programming course, given yearly to **300–500** undergraduate students.

Lecturer, Object Oriented Programming, Hebrew University, 2009–2014
Primary instructor. In charge designing and building the course, giving 2 weekly lectures to **300–500** students, and **managing a staff of 15** teaching assistants.

Lecturer, Programming in the Perl language, Hebrew University, 2007–2008
Initiator, designer, and primary instructor of an advanced graduate programming course (30 students). Course **designed and taught** while still **an undergraduate** student.

Professional Experience

Software Engineer, Check Point Software Technologies LTD, 2004–2005
A member of the elite programming team dealing with maintaining and upgrading Check Point's leading "Firewall" product. The position included study and research of advanced technological topics in the software and communication field, and development of tools for addressing these issues.

Software Engineer, IDF Intelligence Corps, 2001–2003
Programming and management of **operational software projects**. The position included working with numerous partners, in a high-pressure, cutting-edge technological environment.

Educational Volunteer Work

Instructor, Israeli Ministry of Education, 2013–present
Instructor of math seminars to elementary school math teachers.

Volunteer, "Machshava Tova" NPO, 2011–2013
"Machshava Tova" is aimed at narrowing social gaps in Israel through technology. The position included building an **Android programming course** for female orthodox high school students.

Technical Skills

Highly proficient in C/C++, Java, Matlab, Python, Perl, JavaScript, unix tcsh/bash.

Languages

Hebrew: Native Language.

English: Full Proficiency.

Spanish: Advanced Level.

Italian, Arabic (Written): Intermediate Level.

Portuguese, Mandarin Chinese: Basic Level.