

Objective: Research and Development, Software Engineering

Technical Skills

NLP, AI, KR, Logic, C/C++, Java, Lisp (including MOP), Prolog, Pascal, Windows, Unix

Education

9/2002 – **Stanford University**, PhD in Computer Science, with a minor in Linguistics
6/2007 Dissertation title: “Packed Computation of Exact Meaning Representations”
GPA: 4.0

Courses at the Graduate School of Business:

- Interpersonal Influence and Leadership (winter 2007)
- Spring Leadership Workshop (spring 2007)

10/1997 – **Tel Aviv University**, Tel Aviv, Israel, MS in Computer Science
6/2000 Thesis title: “Preferential Systems for Plausible Non-Classical Reasoning”
Final grade: 98/100

10/1994 – **Tel Aviv University**, Tel Aviv, Israel, BS in Computer Science; Statistics and
9/1997 Operations Research. Final grade: 95/100 (CS), 96/100 (Stat.)

Industry Experience

10/2000 – **Software Engineer**, Baobab Technologies, Hod Hasharon, Israel
8/2002 Baobab Technologies developed robust spoken mixed-initiative dialogue systems for domains such as banking and travel reservations.

- Involved with this start-up company from its beginning.
- Designed and implemented modules for natural language analysis (morphology, syntax, semantics) in the dialogue systems.
- Collaborated on building modules that perform reasoning and interpretation of the speaker’s intentions.
- Programmed in C++ and Lisp.
- Wrote technical documents.
- Collaborated with a professor from the University of Rochester.

3–10/1997 **Software Engineer**, Expert Systems Industries, Herzliya, Israel
ESI (Expert Systems Industries) is a leading provider of knowledge-based solutions and workforce management optimization products.

- Designed and implemented a program for client-server transmission of data structures.
- Programmed in C.

1996, 1995 **Freelance Programmer**, Toyly; Marketing in the 21st Century, Tel Aviv, Israel.
Programmed a game and informational software in C++.

continues on the next page

Research Experience

- 9/2002 – **Research Assistant**, Stanford University
6/2007 Research project: Creating tools for precise understanding of natural language texts (<http://www.geocities.com/iddolev/pulc>).
- Implemented in Lisp a prototype system for solving GRE-style logic puzzles given their textual descriptions.
 - Analyzed several advanced linguistic constructions, reviewed relevant linguistic literature, and improved existing analyses by systematizing, simplifying, and extending them.
 - Proved soundness and completeness of the algorithm I developed at PARC.
 - Wrote and implemented semantic rules for the algorithm.
- 6–9/2006 **Internship**, Palo Alto Research Center (PARC), NLTT Group
- Solved the open problem of how to integrate the “glue semantics” framework for natural language semantics with the “choice space” framework for efficiently managing natural language ambiguity.
 - Created a novel algorithm that integrates the two frameworks and calculates packed semantic representations given packed syntactic analyses.
 - Implemented the algorithm in Prolog and integrated it with NLTT’s XLE (Xerox Linguistic Environment) system.
- 9/1997 – **Researcher**, Tel Aviv University, Israel
12/2000
- Conducted research in Logic on non-monotonic reasoning with inconsistencies and non-deterministic semantics for Gentzen-type proof systems.
 - Developed a knowledge representation language and an inference engine for it based on propagation of constraints. Implemented the KR language as an extension of Lisp (CLOS) using its meta-object protocol (MOP).

List of publications available upon request

Teaching Experience

- 10/2005 – **Teaching Assistant**, Stanford University, Computer Science Department
3/2006 Classes in Computational Logic and Natural Language Understanding.
- 10/2000 – **Teaching Assistant**, Tel Aviv University, School of Computer Science, Israel
2/2001, Logic for Computer Science.
4–7/2000

Awards and Scholarships

- 2002–3 School of Engineering Fellowship, Stanford University
2000 The Celia and Marcos Maus annual prize in computer science, Tel Aviv University
1997 Scholarship for academic achievements, Tel Aviv University

Languages

English: fluent. German and French: basic.