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EMPLOYMENT

- PathAI, Inc:** Consultant. Algorithm and system development. [January–May 2021]
- Tripadvisor LLC:** Senior Technical Manager and Principal Software Engineer. Search engine marketing, traffic acquisition, personalization. [November 2011 – May 2020]
- Nevo Technologies:** Consultant. Algorithm development and implementation for investment strategy design and building energy evaluation. [October 2009 – June 2011]
- HireReach Inc:** Chief Scientist. Analysis of web content to match job candidates’ professional skills. [January 2010 – June 2011]
- Oxy Systems Inc:** Co-founder and CTO. Third-party applications for mobile phones, with server-side features and support. [March 2003 – December 2007]
- Harvard University:** Member, Board of Overseers Committee to Visit the College. [September 2001 – June 2006]
- Comverse Network Systems:** CTO, Speech Portal Division. Speech recognition enhancements to service offerings. [August 1999 – November 2002]
- Harvard University:** Adjunct Faculty, Division of Applied Sciences. [September 1997 – June 1998].
- InTouch Systems Inc:** Co-founder and CTO. Speech recognition consulting and applications. [March 1996 – August 1999 (acquired by Comverse Technologies)]
- Bolt Beranek & Newman:** Senior Scientist, Systems and Technologies Division. Speech recognition systems and applications. [October 1991 – March 1996]
- University of Istanbul:** Consultant. Computer reconstruction of the city of Istanbul from the court records of the Ottoman Empire. [June 1991 – September 1992]
- BBN Communications:** Senior Software Architect, Network Analysis Division. Construction and analysis of packet-switched networks. [November 1984 – October 1991]

US PATENTS

- “Active prompts,” #6724864, issued April 20 2004
- “Entering names via keypad,” #6728348, issued April 27 2004
- “Automatic dynamic speech recognition vocabulary based on external sources of information,” #6937986, issued August 30 2005
- “Method of assessing degree of acoustic confusability,” #7013276, issued March 14 2006
- “Voice application bookmarks,” #7158936, issued January 2 2007
- “Transmitting rich media between a personal server and a mobile device over a wide area network,” #10992617, issued April 27 2021

PUBLICATIONS

“Online Median Finding,” <http://denenberg.com/omf.pdf>, in review, 2010

Solutions Manual to Accompany *Data Structures and Their Algorithms*, with Harry Lewis, HarperCollins, 1992

Data Structures and Their Algorithms, with Harry Lewis, HarperCollins, 1991

“Definability by constant-depth polynomial-size circuits,” with Yuri Gurevich and Saharon Shelach, *Information and Control* **70**, 1986 (this paper establishes my Erdős number)

“The complexity of the satisfiability problem for Krom formulas,” with Harry Lewis, *Theoretical Computer Science* **30**, 1984

“Bounds for EMVD inference,” Harvard University Technical Report #25-84, 1984

“Logical syntax and computational complexity,” with Harry Lewis, in *Proceedings, Logic Colloquium 1983*, Aachen

“A problem hard for nondeterministic time n^k ,” with Harry Lewis, in *Proceedings, 19th Annual Allerton Conference on Communication, Control, and Computing*, 1981

“A note on Savitch’s theorem,” Harvard Technical Report #25-81, 1981

“The implementation of PDP-11 ECL,” Harvard Technical Report #29-77, 1977

TEACHING (partial list)

Computer Science 191, Classics of Computer Science, Spring 2021–2, Harvard University

Math 22, Discrete Mathematics, Fall 2003, Tufts University

Computer Science 124, Data Structures and Algorithms, Spring 1998, Harvard University

Math E-117, Advanced Discrete Mathematics, Spring 1993, Harvard University Extension

CSCI E-124, Algorithms, Fall 1992, Harvard University Extension

Applied Sciences 11: Computers, Algorithms, and Programs, Fall 1982, Harvard University

Applied Math 110: Introduction to Programming, 1979, 1980, 1981, Harvard University

EDUCATION

PhD, Applied Mathematics, Harvard University

AB *magna cum laude*, Applied Mathematics, Harvard University

AVOCATIONS

Recreational dancer, dance instructor, and performer; bicyclist and hiker; bibliophile; private pilot. Authority on the works of Rafael Sabatini. Competency in Hebrew.