

# Ori Mosenzon

Kibutz  
Mishmarot  
Israel

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- Personal Information
- Nationality: Israel, USA
  - ID: 0 1312485 4
  - Birth: 1970

## Summary of qualifications

### AI Research

- Research in the field of **Machine Learning – Master's degree**. Research activity included various mathematical problems from the fields of algebra, calculus and information theory.

### Software Engineering

- Wide theoretical and practical experience.
- Proficient in Python, C, C++ and Java.
- Also programmed in JS, Prolog , Pascal, Matlab, Shell script, ML, Perl, TCL, Scheme, Basic, Logo, Assembly-80386, Assembly-6510 and others.
- Proficient in Linux, Windows and Mac OS

### Teaching

- 9 years as a lecturer in college and university. Private math lessons. Teaching in a high school

## Education

M.Sc. and PhD research – Artificial Intelligence & Educational Software

**1997-2004**                      **Hebrew University**                      **Jerusalem, Israel**

- PhD student (direct path), 'Machine Learning'. Recipient of "Best paper" award in Uncertainty in AI, 2001. The research was stopped and closed as a Master Thesis.

B.Sc.

**1994-1997**                      **Ben-Gurion University**                      **Beer-Sheva, Israel**

- Bachelor Degree, Mathematics and Computer Sciences. Graduated with distinction.

## Professional experience

**2014 - present**    **Freelance algorithm developer and a programmer at various companies (DEEP, Applied materials and more)**

- Developed tools for information extraction using Python libraries and vendor's tools.
- Small projects of Web UI
- Research project using Python's mathematical libraries
- Basic project using TensorFlow.

**2008-2016 Independent developer and math teacher**

- Created [tools for learning linear algebra](#) and high school math. Giving private math lessons at home. Teaching programming in [Dan academic school](#) (C, C++ & Python)

**March 2007-2008 Superderivatives Ltd. Tel-Aviv, Israel**

Mathematical finance algorithmic development and software architecture guiding. Working with Quants (Financial Mathematicians), translating formal mathematic idea into code.

**2005-2007(March) Intel Corp. Haifa, Israel**

- Software developer on innovative design automation tools. Programming mostly in C++. Implemented algorithms for circuit mapping and enhancing a HDL compiler.

**1997-2005 Hebrew University & Hadassah college Jerusalem, Israel**

- Lecturer and programmer. Gave the "C++ Programming Workshop" – The main programming course in the CS studies and highly popular course.

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Algorithm Development [The below were done concurrent to my studies]

**1996-1997 Orbotech Ltd Rehovot, Israel**

- Worked on computational geometry algorithms.

**1995-1996 Xtrol Beer-Sheva, Israel**

- Developed algorithms that deal with projections of laser samples of 3D objects, taken by a dedicated machine. The work demanded application of linear algebra and calculus (during first degree studies).

publications

**Thesis:** "[Mutual Information Extraction](#)"

**Article:** "[Multivariate Information Bottleneck](#)", Uncertainty in Artificial Intelligence, 2001; recipient of "Best Paper" award

**Courses:** "[C Programming Workshop](#)", "[C++ Programming Workshop](#)"

Languages

Hebrew - native language  
English - very high level  
Spanish - intermediate level.

Interests and activities

Karate, Mathematics, caricature drawing, hiking, juggling, environmental issues, computers and technology in society. A great fan of the Free Software Movement (GNU, GPL) and the Free Culture (a Wikipedian and a contributor to other wikis)