



## STEPHEN J. GARLAND, PhD

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Technical and Legal Consultant, Software Design and Analysis  
Principal Research Scientist, Emeritus, Massachusetts Institute of Technology

#### Contact Information

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#### Education

DARTMOUTH COLLEGE, A. B., Mathematics, Summa Cum Laude	1963
UNIVERSITY OF CALIFORNIA, Berkeley, MA, Mathematics	1965
UNIVERSITY OF CALIFORNIA, Berkeley, PhD, Mathematics	1967

#### Employment

MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
Research Affiliate, Computer Science and Artificial Intelligence Laboratory	2006 -
Principal Research Scientist, Computer Science and Artificial Intelligence Laboratory	2003 - 2005
Principal Research Scientist, Laboratory for Computer Science	1987 - 2003
Research Scientist, Laboratory for Computer Science	1985 - 1987

#### THE HEBREW UNIVERSITY OF JERUSALEM

Fulbright Lecturer, Computer Science	1991 - 1992
Visiting Professor, Computer Science	1983 - 1984

#### DARTMOUTH COLLEGE

Professor, Computer Science and Mathematics	1980 - 1987
Associate Professor, Mathematics	1974 - 1980
Assistant Professor, Mathematics	1967 - 1974

#### UNIVERSITY OF CALIFORNIA, Berkeley

Visiting Lecturer, Computer Science	1975 - 1976
Research Associate Mathematician, Lawrence Hall of Science	

#### STANFORD UNIVERSITY

Research Associate, Artificial Intelligence Laboratory	1973
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#### UNIVERSITY OF CALIFORNIA, Los Angeles

Visiting Assistant Professor, Mathematics and Computer Science	1970 - 1971
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#### Other Experience

• Consultant, VeroModo, Inc.	2004 -
• Expert consultant and witness on matters concerning computer software litigation	1988 -
• Consultant, Digital Equipment Systems Research Center	1987 - 1994
• Provider of professional development seminars, Yourdon, Inc.	1973 - 1977

## Synopsis of Professional Activity

**Consultant, VeroModo, Inc.**

**2004 -**

Developing TIOA, a language and set of tools for the design, development, and analysis of reliable distributed systems. TIOA is based on research conducted while at MIT.

**Expert Consultant and Witness on Matters Related to Computer Software**

**1988 -**

Providing expert assistance concerning software contracts, copyright, patents, and trade secrets. Have testified seven times, been deposed three other times, and provided reports for six other cases.

**Principal Research Scientist, MIT Laboratory for Computer Science**

**1985 - 2005**

Developed LP, an automated tool for reasoning about hardware, software, and algorithms. Co-led development of specification languages and tools for software (Larch) and distributed systems (IOA). Contributed to research projects on active networks, location-aware computing, and the semantic web.

**Chairman, Computer Science Advanced Placement Committee, The College Board**

**1981 - 1983**

Chaired committee that developed the original Advanced Placement Course in Computer Science.

**Chairman, Program in Computer and Information Science, Dartmouth College**

**1979 - 1983**

Founded and chaired master's program on computers and management. Developed and taught courses on software engineering, project management, legal issues, and professional ethics.

**Chairman, Computer Science Steering Committee, Dartmouth College**

**1976 - 1982**

Developed undergraduate major in computer science. Spearheaded transformation of the Department of Mathematics into the Department of Mathematics and Computer Science.

**Vice Chairman, ANSI/X3J2 BASIC Standards Committee**

**1974 - 1980**

Chaired editorial subcommittee. Produced draft international standards for minimal and extended Basic.

**Faculty Associate, Kiewit Computation Center, Dartmouth College**

**1969 - 1980**

Coordinated application development for the undergraduate curriculum. Developed enhancements to Basic (structured control statements, parameterized procedures and modules, and graphics).

**Assistant Director, Software Development Project, Kiewit Computation Center**

**1967 - 1969**

Co-led development of DCTS, Dartmouth's pioneering timesharing system, which provided academic and administrative computing services at Dartmouth from 1969-1990.

**Author of Textbooks, Research Articles, and Computer Software**

**1959 -**

Wrote four books and over sixty papers in mathematics and computer science. Developed computer software, including three ALGOL compilers and parts of the DCTS operating system in the 1960's, the DCTS text formatting system and educational applications in the 1970's, tools for software specification and automated deduction in the 1980's, and tools for reliable distributed systems design in the 1990s.