



ABOUT CSAIL

RESEARCH

NEWS + EVENTS

RESOURCES

PEOPLE

ALUMNI & FRIENDS

PEOPLE

Principal Investigators

All Members

Student Spotlights

Home » People » Patrick Winston

PATRICK WINSTON

[[Login to edit profile](#)]

Position: Professor

Office: [32-251](#)

Phone: +1 (617) 253-6754

Email: phw@csail.mit.edu

Areas of Study: Artificial Intelligence

[Personal Website](#)

Last Update: June 3, 2013

[Download vCard](#)

BIOGRAPHY

Patrick H. Winston is Ford Professor of Artificial Intelligence and Computer Science at the Massachusetts Institute of Technology. He has been with CSAIL and before that the MIT Artificial Intelligence Laboratory since 1967. He joined the faculty in 1970, and he was the Director of the Artificial Intelligence Laboratory from 1972 to 1997.

Professor Winston is particularly involved in the study of how vision, language, and motor faculties account for intelligence. He also works on applications of Artificial Intelligence that are enabled by learning, precedent-based reasoning, and common-sense problem solving.

Professor Winston is chairman and cofounder of Ascent Technology, Inc., a company that produces sophisticated scheduling, resource allocation, and schedule recovery applications, enabled by AI technology, and in use throughout the world in major airports and the Department of Defense.

Professor Winston was a member of the Naval Research Advisory Committee (NRAC) (1985-1990, 1994-2000) for which he served as Chair from 1997 to 2000. During his service on NRAC, he chaired several studies, including a study of how the Navy can best exploit the next generation of computer resources and a study of technology for reduced manning. Professor Winston is also a past president of the American Association for Artificial Intelligence.

Professor Winston is working on a major new research and educational effort, the Human Intelligence Enterprise, which will bring together and focus research from several fields, including Computer Science, Systems Neuroscience, Cognitive Science, and Linguistics.

PUBLICATIONS

Professor Winston's publications include major textbooks on Artificial Intelligence and several programming languages, an edited collection of papers about AI applications, and several edited collections of key MIT research papers.

*On to Smalltalk**On to Java**On to C++**On to C**Artificial Intelligence, Third Edition**Lisp, Third Edition (with Berthold K. P. Horn)**The AI Business: Commercial Uses of Artificial Intelligence (editor, with Karen A. Prendergast)**Artificial Intelligence at MIT: Expanding Frontiers (editor, with Sarah A. Shellard, two volumes)**Artificial Intelligence: An MIT Perspective (editor, with Richard H. Brown, two volumes)**The Psychology of Computer Vision (editor)*

AWARDS

MIT: MacVicar Faculty Fellowship Award (2011)

MIT Graduate Student Council: Graduate Teaching Award (2006)

International Joint Conference on Artificial Intelligence: Computers and Thought Award (1973)

[submit new awards here](#)*(CSAIL members only)*