

# MIT MECH E

[News + Events](#) [People](#) [Academic Programs](#) [Research](#) [Prospective Students](#) [MechE Life](#)

[Home](#) > [People](#)

## Seth Lloyd

*Professor*

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### People

FACULTY  
EMERITUS FACULTY  
ADMIN STAFF  
TEACHING STAFF  
LECTURERS  
RESEARCH STAFF  
TECHNICAL STAFF  
SUPPORT STAFF  
POSTDOCS  
VISITORS  
FACULTY CLOUD

### [Curriculum Vitae](#)

#### **Administrative Contact:**

Camille Cottrell  
Room 1-104  
Phone: 617-324-5388  
Email: [camillec@mit.edu](mailto:camillec@mit.edu)

### [Deutsch vs. Lloyd Debate \(PDF\)](#)

### [PhD Thesis \(PDF\)](#)

Black Holes, Demons and the Loss of Coherence: How complex systems get information, and what they do with it. The Rockefeller University, April 1, 1988

### [Curriculum Vitae \(PDF\)](#)

#### **Education**

1982 Harvard College. A.B.  
1983 Cambridge University Math.Cert.  
1984 Cambridge University M. Phil.  
1988 Rockefeller University Ph.D.

#### **MIT Service**

Dec. 1994-June 1998, Assistant Professor, Mechanical Engineering  
Sept. 1996-present, Finmeccanica Career Development Professorship  
July 1998-June 2001, Associate Professor without tenure, Mechanical Engineering  
June 2001-June 2002, Associate Professor with tenure, Mechanical Engineering  
June 2002-present, Professor with tenure, Mechanical Engineering

#### **Other Related Experience**

June 1979-Aug. 1979 Research Scientist Stanford Linear Accelerator Center  
June 1980-Aug. 1980 Research Scientist Brookhaven National Laboratory  
June 1981-Sept. 1981 Research Scientist Institute Laue-Langevin, Grenoble  
July 1982-Sept. 1982 Research Scientist Centre European p. Recherche Nucleaire  
June 1985-Sept. 1987 Editor, Columnist Harvard Review  
Oct. 1987-present Adjunct Ass. Professor The Sante Fe Institute  
Dec. 1988-Dec. 1991 Post Doc Fellow California Institute of Technology

Dec. 1991-Dec. 1994 Post Doc Fellow Los Alamos National Laboratory

### **Consulting – Patents**

Jan. 1996-present Quantum Technologies

Dec. 1998-present Hewlett Packard

March 2000-present Microsoft

### **Professional Registration**

None

### **Honors - Awards**

Sargent Prize (Harvard) 1981

Marshall Scholarship 1982

Dirac Prize (Erice) 1985

Lindbergh Fellowship 1994

Finmeccanica Career Development Professorship 1996

Edgerton Prize 2001

### **Quantum information**

Design of quantum computers and quantum communication systems.

Quantum algorithms. Theory of quantum information.

Quantum control theory.

### **Complex systems**

Problems of complexity in engineering

Measures of complexity.

[\*back to top\*](#)

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