# MIT-HARVARD CENTER FOR BRAINS, MINDS, AND MACHINES

The Center for Brains, Minds and Machines (CBMM) is a National Science Foundation funded Science and Technology Center focused on the interdisciplinary study of intelligence.

**Director and Principal Investigator**
Prof. Tomaso A. Poggio
Telephone: 258-9501
Email: tp@csail.mit.edu

CSAIL / MIT

**Location**:
The Center for Brains, Minds, and Machines is located in the Brain and Cognitive Sciences Complex, room 46-5169.

**Website**:
cbmm.mit.edu

**Laboratory Address**:
Center for Brains, Minds, and Machines
43 Vassar Street
MIT 46-5169
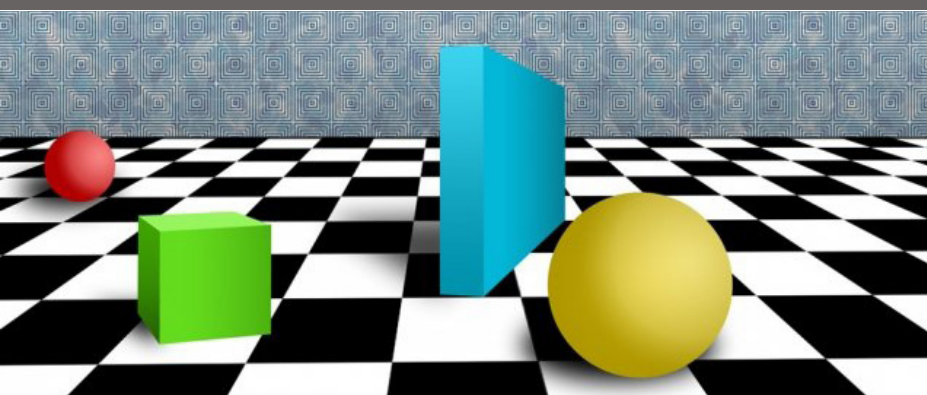Cambridge, MA 02139

## Research Vision

We aim to create a new field — the Science and Engineering of Intelligence — that is dedicated to developing a computationally based understanding of human intelligence and establishing an engineering practice based on that understanding. Our multi-institutional collaboration is a National Science Foundation-funded Science and Technology Center focused on the interdisciplinary study of intelligence.

## Areas of Research

- Understanding how the brain produces intelligent behavior
- Replicating intelligence in machines
- Bridging the Science and Engineering components of intelligence

## Research Thrusts

- Development of Intelligence
- Neural Circuits for Intelligence
- Vision and Language
- Social Intelligence
- Theoretical Frameworks for Intelligence
- Exploring Future Directions

## Industry Applications

- Health care
- Psychology
- Data science
- Robotics
- Computer vision
- Artificial intelligence
- Deep learning

## Current Researchers in the Lab

Prof. Tomaso A. Poggio
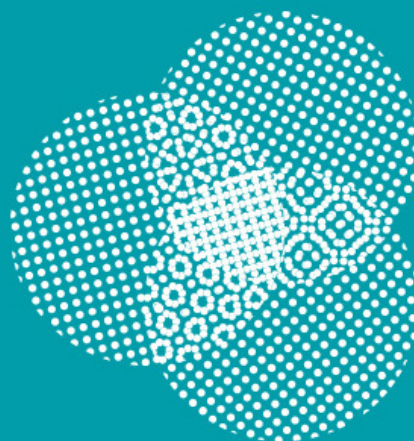Dr. Boris Katz
Prof. Joshua Tenenbaum

## In the News

- Cognitive scientists built a computer model that captures the human visual system's ability to form richly detailed representations of a scene, reported MIT News.
- Causal reasoning tests may help AI systems learn about cause and effect, explained Wired.
- In a new paper, researchers showed why deep networks generalize even while going against statistical intuition, reported MIT News.

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