

NEWS

Quantum computers are here -- but what are they good for?

Don't think of using quantum computers for email or word processing.



By Agam Shah
U.S. Correspondent, IDG News Service |
MAR 13, 2017 1:49 PM PT



Bloomberg Markets

Quantum Computing Might Be Here Sooner Than You Think

Teams at startups, universities, government labs, and companies like IBM are racing to build computers that could potentially solve some problems that are now intractable.

By Jon Asmundsson
June 14, 2017 12:01 AM

Quantum COMPUTING

Futurism

Hard Science

We're About to Cross the "Quantum Supremacy" Limit in Computing

Serious quantum computers are finally here. What are we going to do with them?

MIT
Technology
Review

Hello, quantum world.

by Will Knight February 21, 2018

Hype and cash are muddying public understanding of quantum computing

August 23, 2017 by Michael J. Biercuk, The Conversation





Optimization



Chemistry



Machine learning

**Hard problems for
classical computers**

**Easy
problems**

**Quantum
possible**





INTRODUCTION TO QUANTUM COMPUTING

SARA GAMBLE (ARMY RESEARCH OFFICE)

QUANTUM ALGORITHMS

SHELBY KIMMEL (MIDDLEBURY COLLEGE)

LOGICAL QUANTUM COMPUTING

*SARAH SHELDON (IBM THOMAS J.
WATSON RESEARCH CENTER)*

QUANTUM SIMULATION

*NORMAN YAO (UNIVERSITY OF
CALIFORNIA, BERKELEY)*