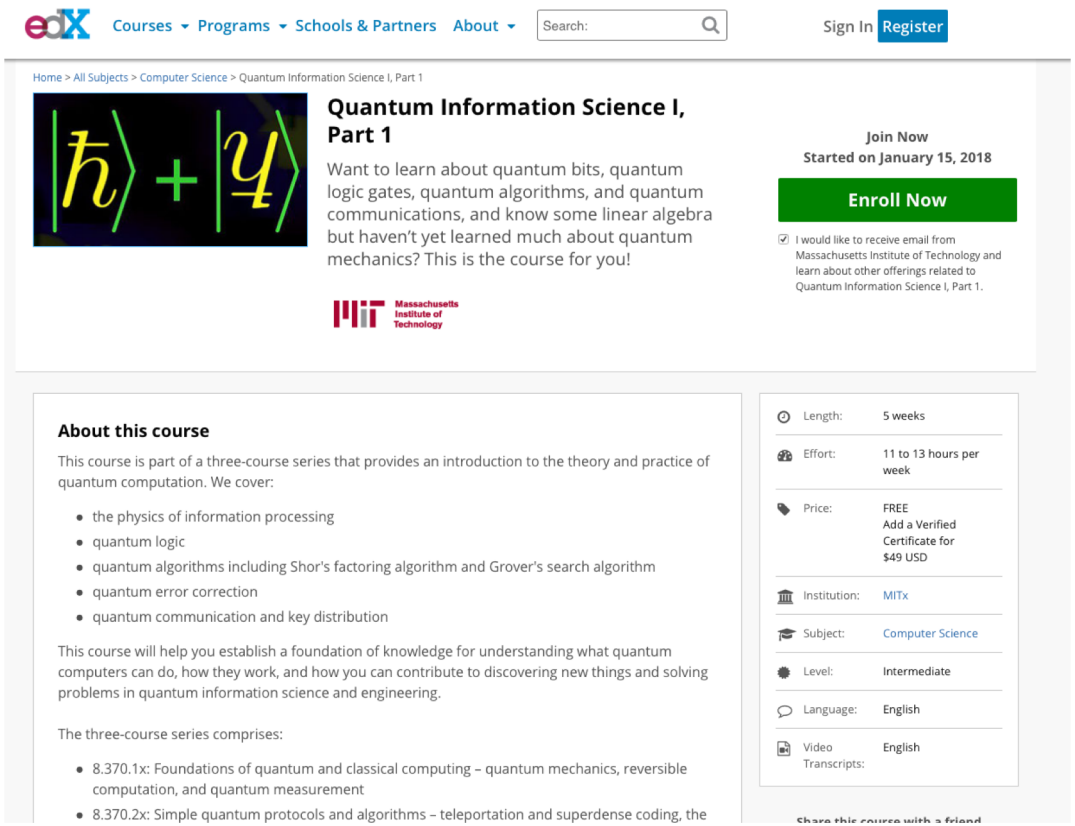
FEBRUARY 2018

- Agenda
  - Introductions and thanks to Microsoft
  - Quantum News
  - Food/Pizza
  - Quantum Computing refresher
- Presentations can be found at github.com/NYCQuantumComputing
- Twitter @NYCQuantum
- Looking for hosts, presenters, topics, suggestions

RECAP 2017

- 2017
  - Grover search, IBM's Quantum Experience, math behind Grover, DWAVE technical presentation, Chris Monroe from IONQ, Quantum Entanglement, Bell's Inequality, IBM presented QISKIT, Nathan Weibe from Microsoft, Shor Discussion
- 2018
  - Refresher – thanks to everybody for helping

EDX CLASS STARTING JANUARY 15, 2018



NEWS / INTERESTING 2018

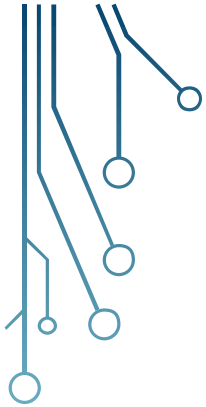
- “The Era of Quantum Computing Is Here. Outlook: Cloudy”
- “Quantum race accelerates development of silicon quantum chip” (delft)
- “Quantum Algorithms Struggle Against Old Foe: Clever Computers” (Quantum Magazine)
- Unsupervised Machine Learning on a Hybrid Quantum Computer - Rigetti
- “Quantum Computing in the NISQ era and beyond” – Preskill
- Background pointers
  - https://github.com/desireevl/awesome-quantum-computing/blob/master/README.md

IDEAS FOR 2018

- Quantum Noise and Decoherence
- Advanced topics (Quantum Machine Learning, Quantum Games, Quantum "assist")
- Microsoft
- Quantum Hardware
- Actual applications – designing a modeling application?

QUANTUM COMPUTING REFRESHER (JAN 2018)

- Thanks to Emma Strubell for permission to use her slides!
  - Introduction to Quantum Algorithms
    - https://people.cs.umass.edu/~strubell/doc/quantum_tutorial.pdf
  - Slides
    - https://people.cs.umass.edu/~strubell/doc/quantum_presentation_1.pdf
    - https://people.cs.umass.edu/~strubell/doc/quantum_presentation_2.pdf



MUIR KUMPF/IBM