Eric Anschuetz | Curriculum Vitae

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Employment

- **Massachusetts Institute of Technology** — **Cambridge, MA**
  Graduate Research Assistant, Aram Harrow and Mikhail Lukin Groups — *2017–Present*
- **Zapata Computing Inc.** — **Cambridge, MA**
  Intern — *Summer 2018, 2019*
- **Harvard University** — **Cambridge, MA**
  Undergraduate Research Assistant, Mikhail Lukin Group — *2015–2017*
- **Harvard-Smithsonian Center for Astrophysics** — **Cambridge, MA**
  Undergraduate Research Assistant, Jonathan Grindlay Group — *2014–2015*

Publications

E. R. Anschuetz, "Critical points in hamiltonian agnostic variational quantum algorithms," (2021), arXiv:2109.06957 [quant-ph] .

X. Gao, E. R. Anschuetz, S.-T. Wang, J. I. Cirac, and M. D. Lukin, "Enhancing generative models via quantum correlations," (2021), arXiv:2101.08354 [quant-ph] .

T. Tomesh, P. Gokhale, E. R. Anschuetz, and F. T. Chong, "Coreset clustering on small quantum computers," Electronics **10**, 1690 (2021).

J. X. Lin, E. R. Anschuetz, and A. W. Harrow, "Using spectral graph theory to map qubits onto connectivity-limited devices," ACM Transactions on Quantum Computing **2**, 1 (2021).

E. R. Anschuetz and C. Zanoci, "Near-term quantum-classical associative adversarial networks," Phys. Rev. A **100**, 052327 (2019).

E. R. Anschuetz and Y. Cao, "Realizing Quantum Boltzmann Machines Through Eigenstate Thermalization," (2019), arXiv:1903.01359 [quant-ph] .

E. Anschuetz, J. Olson, A. Aspuru-Guzik, and Y. Cao, "Variational Quantum Factoring," in *Quantum Technology and Optimization Problems*, edited by S. Feld and C. Linnhoff-Popien (Springer International Publishing, Cham, 2019) pp. 74–85.

M. Endres, H. Bernien, A. Keesling, H. Levine, E. R. Anschuetz, A. Krajenbrink, C. Senko, V. Vuletic, M. Greiner, and M. D. Lukin, "Atom-by-atom assembly of defect-free one-dimensional cold atom arrays," Science **354**, 1024 (2016)

Education

- **Massachusetts Institute of Technology** — **Cambridge, MA**
  Physics — *2017–Present*
  PhD in progress, co-advised by Aram Harrow and Mikhail Lukin, 4.00 GPA
- **Harvard University** — **Cambridge, MA**
  Physics — *2015–2017*
  AM, 3.89 GPA, 3.95 major GPA
- **Harvard University** — **Cambridge, MA**
  Physics and mathematics majors, computer science minor — *2013–2017*
  AB, 3.92 GPA, *magna cum laude* with Highest Honors in physics

Awards

- **Quantum Techniques in Machine Learning** — **Cambridge, MA**
  Contributed Talk — *2020*
- **Massachusetts Institute of Technology** — **Cambridge, MA**
  Dean of Science Fellow — *2017*
- **National Science Foundation** — **Alexandria, VA**
  Graduate Research Fellow — *2017*
- **Harvard University** — **Cambridge, MA**
  Harvard College Scholar — *2015*

Technical Skills

- **Programming Languages:** Proficient in C, C++, C♯, Java, LaTeX, Mathematica, and Python (including the QuTiP and TensorFlow software libraries). Familiar with Arduino and MATLAB.
- **Electrical Engineering Skills:** Proficient in soldering. Familiar with Magic VLSI, Netgen, Mentor Graphics PADS, and Texas Instruments C2000 microcontrollers.
- **Industry Software Skills:** Proficient in GNU/Linux.

References

- References available upon request.