

Steven Kordonowy

Curriculum Vitae

Boulder, Colorado

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📄 [stevenkordonowy.github.io](https://github.com/stevenkordonowy)

Education

- 2022–present **Doctor of Philosophy**, *University of Santa Cruz, CA*, Computer Science.
Advised by Dr. Alex Kolla
Quantum computing, theoretical computer science
- 2019–2022 **Masters of Science**, *University of Colorado - Boulder, CO*, Computer Science.
(Expected) Coursework in Algorithms and Complexity, Quantum Physics and Information
Quantum science courses across Computer Science, Physics, Chemistry, and Engineering
- 2010–2014 **Bachelor of Science**, *University of Denver, CO*, Mathematics.
Minors: Computer Science, Physics, Psychology
- 2012 **Study Abroad**, *Universidad de Buenos Aires, Argentina*.

Research Projects

- 2021–present **Local Tensor Algorithms for State Preparation**, *Collaborator: Barak Sahinoglu*.
- 2020–present **Quantum vs Classical Local Algorithms for Local Maxcut**, *Collaborators: Adam Bouland, Alex Kolla, Charles Carlson*.
- 2020–present **Spectral Aspects of Symmetric Matrix Signings**, *Collaborators: Alex Kolla, Charles Carlson*.
- 2012 **Summer Institute in Biostatistics**, *Washington University, St. Louis, MO*.

Papers and Presentations

- Feb 2021 **Poster: Quantum vs Classical Local Algorithms for Local Maxcut**, *Collaborators: Adam Bouland, Alex Kolla, Charles Carlson, QIP 2021*.

Teaching Experience

- 2022 **Quantum Computing (Instructor)**, *University of Colorado, CSCI/PHYS 3090*.
- 2020, 2022 **Discrete Structures (Instructor)**, *University of Colorado, CSCI 2824*.
- 2021 **Algorithms (GTA)**, *University of Colorado, CSCI 3104*.
- 2020, 2021 **Intro to Quantum Computing (GTA)**, *University of Colorado, CSCI/PHYS 3090*.
- 2020 **Linear Programming (GTA)**, *University of Colorado, CSCI 5654*.
- 2019 **Computer Systems (GTA)**, *University of Colorado, CSCI 2400*.

Professional Experience

- 2016–2019 **Software Engineer**, *Nasdaq, Inc, Lakewood, CO*.

2014–2016 **Software Engineer**, *IntelliData, Inc.*, Greenwood Village, CO.

Volunteer

2015–2018 **Tech Wizards**, *4H*, Sun Valley Youth Center, Denver, CO .

Awards

2014 **Herbert J. Greenberg Award for Outstanding Achievements in Mathematics**, *University of Denver*.

2013 **Outstanding Mathematics Junior**, *University of Denver*.

2012 **Outstanding Mathematics Sophomore**, *University of Denver*.

Skills and Technologies

Comfortable programming in any language with expertise in Java, Python, and JavaScript

Quantum circuit programming experience with qiskit and qasm

CP/IP Networking

Common software engineering practices such as git, docker, and command line tools

Cloud computing technologies such as Kubernetes and Kafka

Unix and Windows