

# Steven Kordonowy

## Curriculum Vitae

Boulder, Colorado

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

### Education

- 2019–present **Doctor of Philosophy**, *University of Colorado - Boulder, CO*, Computer Science.  
Advised by Dr. Alex Kolla  
Quantum computing, theoretical computer science  
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 **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