

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, Complex Systems, Automata
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.
Courses in numerical analysis, physics, and Latin culture all taught in Spanish

Research Projects

- 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

- 2021 **Discrete Structures (Instructor)**, *University of Colorado*, CSCI 2824.
- 2021 **Algorithms (GTA)**, *University of Colorado*, CSCI 3104.
- 2020 **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