

Steven Kordonowy

Curriculum Vitae

Boulder, Colorado

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

Education

- 2020–present **Doctor of Philosophy**, *University of Colorado - Boulder*, CO, Computer Science.
Advised by Dr. Alex Kolla
Quantum computing, theoretical computer science
Coursework in Algorithms, Automata, Complexity
Quantum science courses across Physics, Chemistry, and Computer Science
- 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

- 2019–present **Quantum Complexity of Local Max-Cut**, *Collaborators: Alex Kolla, Adam Bouland, Charles Carlson*.
- 2020–present **Spectral Aspects of Symmetric Matrix Signings**, *Collaborators: Charles Carlson, Alex Kolla*.
- 2012 **Summer Institute in Biostatistics**, *Washington University*, St. Louis, MO.

Teaching Experience

- 2020 **Discrete Structures (Instructor)**, *University of Colorado - Boulder*, CSCI 2824, Summer.
- 2020 **Intro to Quantum Computing (GTA)**, *University of Colorado - Boulder*, CSCI/PHYS 3090, Spring.
- 2020 **Linear Programming (GTA)**, *University of Colorado - Boulder*, CSCI 5654, Spring.
- 2019 **Computer Systems (GTA)**, *University of Colorado - Boulder*, CSCI 2400, Fall.

Professional Experience

- 2016–2019 **Software Engineer**, *Nasdaq, Inc*, Lakewood, CO.
Developed realtime risk management services
Designed data-driven, concurrent stream processing applications
Secure serverside APIs to client-facing UI code
- 2014–2016 **Software Engineer**, *IntelliData, Inc.*, Greenwood Village, CO.
Electronic components data services
Serverside applications for building ETL pipelines

Volunteer

- 2015–2018 **Tech Wizards, 4H**, Sun Valley Youth Center, Denver, CO .
Run science experiments, teach basic programming, and mentor kids aged 8-12.
Emphasize the fun side of STEM and getting kids to think about science outside of the classroom

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