

Steven Kordonowy

Curriculum Vitae

Santa Cruz, California

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

Education

- 2022–present **Doctor of Philosophy**, *University of California - 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.
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*.

Papers and Presentations

- April 2023 **A quantum advantage over classical for local max cut**, *Collaborators: Charlie Carlson, Zack Jorquera, Alex Kolla*, arxiv submission.
- Feb 2021 **Poster: Quantum vs Classical Local Algorithms for Local Maxcut**, *Collaborators: Adam Bouland, Alex Kolla, Charles Carlson*, QIP 2021.

Research Projects

- 2020–2023 **Quantum vs Classical Local Algorithms for Local Maxcut**, *Collaborators: Charles Carlson, Zack Jorquera, Alex Kolla*.
- 2023–present **Optimizing quantum max-k-cut**, *Collaborators: Charles Carlson, Zack Jorquera, Alex Kolla*.
- 2012 **Summer Institute in Biostatistics**, *Washington University, St. Louis, MO*.

Teaching Experience

- 2022 **Quantum Computing (Instructor)**, *CU-Boulder*.
- 2020, 2022 **Discrete Structures (Instructor)**, *CU-Boulder*.
- 2021 - 2023 **Undergraduate Algorithms (TA)**, *UCSC, CU-Boulder*.
- 2020 - 2023 **Quantum Computing (TA)**, *UCSC, CU-Boulder*.
- 2020 **Linear Programming (TA)**, *CU-Boulder*.
- 2019 **Computer Systems (TA)**, *CU-Boulder*.

Awards

- 2023 **Outstanding TA Award for the Department of Computer Science and Engineering**, *University of California Santa Cruz*.
- 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*.

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 .

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