Steven Kordonowy

Curriculum Vitae

Santa Cruz, California ⊠ skordono@ucsc.edu Stevenkordonowy.github.io

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

- Sept 2023 Approximation Algorithms for Quantum Max-d-Cut, Collaborators: Charlie Carlson, Zack Jorquera, Alex Kolla, preprint
- April 2023 A quantum advantage over classical for local max cut, Collaborators: Charlie Carlson, Zack Jorquera, Alex Kolla, preprint

Presentations and Posters

- Jan 2023 Poster: Approximation Algorithms for Quantum Max-d-Cut, QIP 2023
- Jan 2023 Poster: A quantum advantage over classical for local max cut, QIP 2023

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 langue 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