

NATHAN CORDNER

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Education

- Doctor of Philosophy*, Boston University expected May 2022
- Major: Computer Science
 - Emphasis: Approximation Algorithms, Optimization
- Master of Science*, Boston University September 2019
- Major: Computer Science
 - GPA: 3.84 out of 4.0
- Master of Science*, Brigham Young University August 2016
- Major: Mathematics
 - Thesis: Isomorphisms of Landau-Ginzburg B-Models
 - GPA: 3.95 out of 4.0
- Bachelor of Science*, Brigham Young University August 2014
- Major: Mathematics
 - Minor: Computer Science
 - GPA: 3.83 out of 4.0
- Related Courses:* Algorithms, Convex Optimization, Data Mining, Probability, Mathematical Statistics
Programming Skills: Python, Java, C++, SQL, R, C#, JavaScript, HTML, CSS

Work Experience

- Research Fellow*, Boston University January 2019–Present
- Developed efficient algorithms for clustering and fractional cluster assignment
 - Studied prize-collecting Steiner tree algorithms for submodular objective functions
 - Implemented these algorithms in C++ and Python
- Teaching Fellow*, Boston University September 2017–December 2018
- Taught under a professor for an introductory CS course in Python
 - Supervised 80 students per semester in small lab classes
- Software Engineer*, Vecna Technologies October 2016–August 2017
- Supported two healthcare clients with software customizations
 - Worked on team of seven engineers in Agile development environment
 - Generated developer tools and automated various manual processes
- Teaching Assistant*, Brigham Young University September 2014–August 2016
- Lectured solo for one semester each of Calculus I, II, III, and Business Calculus
 - Taught under a professor for two semesters of Calculus I and for an intro to proofs class
 - Supervised up to 80 students per semester in lecture and recitation classes

Research Publications

- An Isomorphism Extension Theorem for Landau-Ginzburg B-Models* February 2018
- Communications in Algebra, Volume 46, Issue 8
- Transposing Noninvertible Polynomials* January 2016
- Rose-Hulman Undergraduate Mathematics Journal, Volume 16, Issue 2