
Laura Cui

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Education

Massachusetts Institute of Technology

Bachelor of Science in Physics and Mathematics

- Minor: Computer Science
- GPA: 5.0/5.0
- Expected graduation: June 2023
- Relevant coursework: Abstract Algebra I, Probability and Random Variables, Quantum II-III

Activities: Educational Studies Program, Borderline, Society of Physics Students

Experience

JUNE 2020 - AUGUST 2020

MIT Research Laboratory of Electronics - Undergraduate Student Researcher

- Advised by Prof. Dirk Englund and Dr. Carlos Errando Herranz
- Develop bond-orbital model for strain-induced second order corrections to optical susceptibility in non-centrosymmetric materials

JAN 2020

J.P. Morgan Chase & Co. - Quantitative Research Intern, Rates Data Analytics

- Develop and implement predictive models for fixed income trading

JUNE 2018 - AUGUST 2018

Maryland Center for Fundamental Physics - Research Assistant

- Advised by Prof. Thomas D. Cohen
- Reduced doubly heavy tetraquarks to two-body system in formal heavy mass limit and used toy models with radial effective potential to solve numerically
- Showed systems with single state are weakly bound regardless of short distance interactions

NOVEMBER 2017 - AUGUST 2019

Art of Problem Solving Academy Gaithersburg - Teaching assistant

- Assisted Grades 3 and 4 Mathematics and Math Beasts 7-9 Summer Camp
 - Performed outreach and front desk work
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Additional Skills

- Proficient in Python, Java, C++, Mathematica, and MATLAB
 - Experience with data science libraries and machine learning
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Awards and Honors

2019 **Regeneron Science Talent Search Scholar**

For work with near-threshold doubly heavy tetraquark states