Laura Cui

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Education

Education
Massachusetts Institute of Technology Bachelor of Science in Physics and Mathematics
 GPA: 5.0/5.0 Expected graduation: June 2023 Relevant coursework: Graduate Statistical Mechanics I, Probability and Random Variables, Quantum I formation Science I-II, Functional Analysis
Activities: Educational Studies Program, Undergraduate Mathematics Association, Borderline
Experiences
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 no centrosymmetric materials
JANUARY 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 wi radial effective potential to solve numerically Showed systems with single state are weakly bound regardless of short distance interactions
NOVEMBER 2017 - JULY 2020 Art of Problem Solving Academy Gaithersburg - Teaching Assistant
 □ Assisted with High School Contest Math and Math Beasts 7-9 summer camps □ Performed grading, outreach, and front desk tasks

Awards and Honors

Additional Skills

2019 Regeneron Science Talent Search Scholar

For work with near-threshold doubly heavy tetraquark states

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