CONNOR MARRS

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OBJECTIVE

Student at Bowdoin College studying Math and Computer Science, with experience in Computational Game Theory. Interested in Research Projects connecting mathematics to problems in computer science.

EDUCATION

Bachelor of Arts in Mathematics and Computer Science, Bowdoin College — Expected 2023
Major GPA: 4.0, Overall GPA: 3.86
Current Coursework: Topology, Advanced Topics in Ring and Field Theory, Foundations of Computer Systems

Other Relevant Coursework: Advanced Topics in Geometry, Ring and Field Theory, Linear Algebra, Independent Study in Spectral Graph Theory, Algorithms, Introduction to Mathematical Reasoning, Data Structures

Diploma, Rye Country Day School — 2015-2019
Won the Mathematics Prize and Science Prize for Research into Homopolar Generators.

SKILLS

Programming	Java (Advanced), Python (Intermediate), MATLAB(Novice)
Languages	English (First Language), Spanish (Fluent)

EXPERIENCE

Research Assistantship — Jun 2020 - Present
Bowdoin College — *Brunswick, ME*

- Awarded Gerald Weinberger Fellowship to study applications of Computational Game Theory to predicting stable outcomes in legislative bodies.
- Translated data into insights via modern machine learning techniques (convex loss optimization) and data analysis with Pandas (Python package).
- Paper demonstrating Linear Influence Games' capacity to aid Political Scientists in preparation (with Professor Irfan).

Calculus Tutor — Sep 2020 - Present
Bowdoin College — *Brunswick, ME*

- Walked Calculus students through homework problems and addressed conceptual challenges.

PROJECTS

- **Sudoku-Solver** Implemented a backtracking search in Java to solve given sudoku puzzles. Effective up to puzzles of 144 squares.
- **Primality Tester** Implemented a variety of prime-testing methods, including the Sieve of Eratosthenes, Miller-Rabin Test, and the General Number Field Sieve.

EXTRA-CIRRUCULAR ACTIVITIES

- **Bowdoin Problem Solving Club** Helped organize club, culminating in a score of 11 on the William Lowell Putnam Competition.
- **Bowdoin College Math Circle** Aided Professor Jennifer Taback in running a Math Circle for local Middle Schoolers, focusing on preparation for the AMC 8.