

**Jason Yamaguchi**  
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## **EDUCATION**

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### **The University of Chicago**

*Bachelor of Arts in Economics – Data Science Track*

**GPA:** 3.5/4.0

**Relevant Coursework:** Mathematical Probability; Linear Algebra; Statistical Models and Methods; Econometrics; Time Series Analysis for Macroeconomics; Quantitative Portfolio Management and Algorithmic Trading; Markov Chains, Martingales, and Brownian Motion (fall '24).

**Financial Markets Program:** Selective three-year quantitative finance cohort offering members personalized advising, employer visits, recruitment resources, and professional development workshops.

### **The Bronx High School of Science**

Chicago, IL  
Expected, June 2025

Bronx, NY

## **EXPERIENCE**

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### *Self-employed — Sports Analytics and Trading*

February 2022 – Present

- Create statistical models and other pricing strategies to estimate event probabilities for football, hockey, basketball, tennis, and baseball games.
- Build Monte Carlo simulations and regression-based predictive models to transform player- and team-level data into outcome predictions.
- Use a modified form of the Kelly criterion to maximize long-term bankroll growth through optimal bet-sizing.
- Estimate correlations between trades to prevent over-betting and minimize drawdown risk.
- Produced a ROI of ~7% against relatively liquid sports betting markets as of August 2024.
- Achieved a 63x multiple on invested capital (MOIC) as of August 2024.
- Dedicate 30-60 hours per week to research, model implementation, trading, and post-hoc analysis.

### **OddsChecker**

*Analyst, Featured Writer*

February 2022 – March 2023

- Leveraged sports model outputs to identify and quantify inefficiencies in sports betting markets.
- Authored detailed articles of game-by-game analysis, communicating market inefficiencies to readers.
- Improved reader engagement by translating complex statistical analysis into accessible, informative content.

## **LEADERSHIP & ACTIVITIES**

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### **Science for Bronx**

*Co-President, Tutor*

Bronx, NY  
March 2019 – June 2021

- Led a volunteer tutoring organization that partnered with Bronx-based middle schools and offered tutoring services for the SHSAT exam.
- Coordinated the organization's transition online amidst the Covid-19 pandemic.
- Helped our students achieve a specialized high school acceptance rate of 56% (prior acceptance rate was sub-5%).

## **TECHNICAL SKILLS**

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- Experienced in Python (Pandas, NumPy, scikit-learn), R, and Excel