

MICHAEL ZHANG

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EDUCATION

Massachusetts Institute of Technology Cambridge, MA	May 2023
Bachelor of Science: Double Major in Computer Science and Math, Minor in Physics	GPA: 5.0/5.0
<i>Relevant Coursework:</i> Machine Learning, Statistical Learning Theory, Algorithms for Inference, NLP	
Saratoga High School Saratoga, CA	Jun 2019
High School Diploma	GPA: 4.0/4.0

WORK EXPERIENCE

Quantitative Trading Intern , Jane Street New York, NY	Jun 2022 - Aug 2022
<ul style="list-style-type: none">- Used Pandas and Excel to investigate cryptocurrency market structure and stock-exchange closing auctions.- Learned about various models, some involving machine learning, that can be used to analyze market data.	
Undergraduate Researcher , MIT CSAIL Cambridge, MA	Jan 2022 - May 2022
<ul style="list-style-type: none">- Investigated few-shot prompt-based learning for language classification tasks.- Implemented methods for decreasing bias in prompt-based models.	
Quantitative Trading Intern , Optiver Chicago, IL	Jun 2021 - Aug 2021
<ul style="list-style-type: none">- Excelled in a four-week option theory course and an intern algo trading competition.- Traded S&P futures and options in a simulated environment with live market data.- Contributed to a pricing model for index options.	
Undergraduate Researcher , MIT Quest for Intelligence Cambridge, MA	Sep 2020 - Dec 2021
<ul style="list-style-type: none">- Optimized neural networks for performing symbolic regression on datasets involving extrapolation.- Developed an architecture for fitting equations to data governed by parametric and differential equations.- Investigated the end-to-end training of complex models incorporating symbolic regression networks.	
Software Engineering Intern , PayPal San Jose, CA	May 2020 - Aug 2020
<ul style="list-style-type: none">- Built sentiment analysis models to analyze posts on social media and interactions with customer service.- Created baseline models to validate H2O.ai software for PayPal use.- Tech stack: Python, Pytorch, NLP, BERT, MLflow, transfer learning.	

AWARDS

- USA Computing Olympiad Finalist (top 26 in U.S.)	- Putnam Competition Top 500
- USA Math Olympiad Qualifier (score: 15)	- Stanford ProCo Grand Prize
- USA Physics Olympiad Silver Medalist	- received \$2,500 National Merit Scholarship

LEADERSHIP & VOLUNTEER EXPERIENCE

Computer Science Club	Sep 2015 - May 2019
<i>President</i>	
<ul style="list-style-type: none">- Organized weekly meetings that ranged from lectures to interesting problems to fun contests.- Led the planning for an in-person, olympiad-style coding competition with contestants from nearby schools.	
Math Club	Sep 2015 - May 2019
<i>President</i>	
<ul style="list-style-type: none">- Organized weekly meetings that usually involved solving problems and student speakers.- Dealt with the logistics behind administering national contests (AMC, AIME, etc.).- Streamlined student registration for local math competitions (SMT, BMT, etc.).	

ADDITIONAL SKILLS

Computer: Python, Pytorch, Tensorflow, Java, JavaScript, React.js, Latex
Languages: conversational proficiency in Mandarin, basic skills in Spanish