NANCY (YANAN) JIANG

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EDUCATION

Stanford University   (exp.) **Fall 2024 – Spring 2026**
MS in CS (AI/ML Track)   *Stanford, CA*

Stanford University   (exp.) **Fall 2022 – Spring 2025**
Undergraduate, Math (Honors), 3.9/4.0   *Stanford, CA*

Milton Academy   **Fall 2019 – Spring 2022**
High School   *Milton, MA*

RELEVANT COURSEWORK

*Stochastic Methods for Engineers (A+), *Advanced Investment Science (A+), *Machine Learning (A), *Stochastic Processes (A-), *Cryptography (A), *NLP with Deep Learning (A-), *Combinatorics (A+), Operating Systems (A-), Algorithm Design (A), Probability (A), Linear Algebra (A+), Real and Functional Analysis (A+)   *(* for graduate level)*

EXPERIENCE

Intern at Atomic Vaults LLC   **July 2024 – October 2024**
Technical Chief of Staff Intern   *San Francisco, CA*
- Trading and market simulations, operations research, business development research.

Research at Hazy Research Lab   **October 2023 – April 2024**
Group project with Mayee Chen (PhD Candidate) and Zhoujie Ding (MS Candidate)   *Stanford, CA*
- Research in online data selection algorithms for LLM training.

Cryptocurrency Trading Agent with Deep Reinforcement Learning   **January 2024 – March 2024**
Final project for CS 229: Machine Learning   *Stanford, CA*
- (Double) Deep Q-Network for cryptocurrency trading, agent yielded an excess return of 75% on BTC and ETH.

NYC Discrete Math REU   **June 2023 – August 2023**
Research Student under Professor Guy Moshkovitz (Baruch College, CUNY)   *New York, NY*
- Additive combinatorics research on bounding the number of Arithmetic Progressions in a structured subspace of $\mathbb{F}_p^n$.

MIT PRIMES   **January 2021 – January 2022**
Research Student under Dr. Felix Gotti (MIT)   *Cambridge, MA*
- Year-long research in commutative ring theory as a member of a joint research project. Paper co-authored with Bangzheng Li and Sophie Zhu, "On the primality and elasticity of algebraic valuations of cyclic free semirings," was published in the *International Journal of Algebra and Computation (IJAC)*.

AWARDS

Top 644, **Putnam Mathematical Competition** 2023
Top 300 Scholar, **Regeneron Science Talent Search** 2022
Second Prize, **Massachusetts Science and Engineering Fair (MSEF)** 2021
Champion, **2021 VEX Robotics China National Championship** 2021
Richard L. Derby Memorial Award **(to six outstanding juniors in Mathematics, Astronomy, or Physics)** 2021
5-time Qualifier, **AIME (best score 10/15),** Certificate of Distinction, **AMC 12** 2018 – 2022
Top 15, **China Girls Mathematical Olympiad (CGMO) Team Selection Test** 2019

EXTRACURRICULAR

Stanford Undergraduate Mathematics Organization | *Vice President*   **2023 – 2024**
Citadel Women's Datathon | *Participant*   **2024**
- One of 80 selected from 1200+ applications.

Citadel Trading Invitational | *Participant*   **Apr 2024**
UChicago Trading Competition | *Participant*   **Apr 2024**
Stanford Math Tournament | *Organizing Team member & Problem Writer*   **2022 – 2023**
Rock climbing   **2023 –**

LANGUAGES & SKILLS

Python, C/C++, JavaScript, Mandarin Chinese (native), French (limited proficiency)