

Yili Wen

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EDUCATION

The University of Chicago

Intended degree: Bachelor of Science in Math, GPA: (3.84/4.00)

Chicago, IL

Sep 2023 - June 2027

Culver Academies

Diploma, Weighted GPA: (4.61/4.00)

Culver, IN

Aug 2020 - June 2023

Honors: Cum Laude (2023), Blue Key (2022), Honors in Computer Science (2023), Honors in Mathematics (2022)

EXPERIENCE

Argonne National Laboratory Summer Research – Jeff Metcalf Fellowship

Researcher

Chicago, IL

June 2024 - now

- Develop algorithms leveraging quantum computing for causal inference under the mentorship of Dr. Nickolas Chia
- Secure a \$5000 research stipend through the UChicago QUBIT cohort program

Tencent Quantum Computing Internship

Researcher

Online

June 2024 - now

- Design and apply for a patent for optimizing frequency placement on quantum chips to enhance performance
- Receive mentorship from researchers at Tencent Quantum Computing Lab, gained valuable industrial insights into the implementation of quantum computing algorithms

IBM Quantum Computing Education Programs

Participant

Online

Jul 2024; Sep 2021 - May 2022

- Completed Qiskit Summer School Program 2024, learned to orchestrate quantum circuits for specific problems and utilize IBMQ error mitigation techniques to maximize the quantum computing performance
- Participated in QxQ Introduction to Quantum Computing, gaining a comprehensive overview of the field

Honors in Computer Science and Math

Independent Researcher

Culver, IN

Aug 2021 - Dec 2022

- CS: applied quantum computing algorithms (Grover's algorithm and duality quantum computing) in Qiskit to solve Sudoku more rapidly than classical computing; connect Sudoku to cybersecurity with quantum key distribution
- Math: implemented machine learning algorithms (Gradient Boost and XGBoost) in Python to predict rental prices
- Authored and successfully defended the papers in front of the school STEM instructors

LEADERSHIP & ACTIVITIES

Quantum Journal Club, University of Chicago

Member

Chicago, IL

Oct 2023 - present

- Collectively engage in self-directed study of quantum articles such as quantum simulation, synthesize personal comprehension into informative handouts that are distributed within the club

Chess Club/Chess Team

Vice President in college, Club President in high school

Chicago, IL & Culver, IN

Aug 2020 - present

- Participate in weekly meetings and share chess skills with others
- Achievement: National Master, 1st – Chicago Open 2023, U2300 section; 4th Top Girls Aged 18 in US in June 2022

SKILLS

Languages: Proficient in English and Chinese (native language)

Computer: Proficient in Python, Qiskit, Java, Microsoft Word, Excel, and PowerPoint.