

NICOLE QIAN

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Education

Northwestern University

Bachelor's of Science, Major in Applied Mathematics, Minor in Data Science and Machine Learning

June 2027

Cumulative GPA: 3.9/4.0

Relevant Coursework: Microeconomics, Honors Linear Algebra, Honors Differential Equations, Multivariable Calculus, Foundations of Data Science, Design Thinking & Communication

Buchholz High School

Gainesville, FL

May 2023

GPA: 4.92/5.0

Work Experience

Science of Networks in Communities Research Labs | March 2024-present

Project Coordinator - Northwestern University

- Member of Project TEAMSTaR, collecting data of crews living in extreme isolation over 45 days, in collaboration with NASA
- Primary communicator with NASA, oversaw data collection, calculated descriptive statistics, automated scoring approaches for crew tasks, performed social network analysis, led weekly meetings, presented team & individual progress to PI & in lab meetings
- Submitted abstract on the effectiveness of designed countermeasure for enhancing team performance to the Human Research Program Investigators' Workshop (IWS)

Radnor Lake Capital | March 2024-June 2024

Finance Intern - Kellogg School of Management

- Interned with MBA Candidate McLean Hudson, who was in preparation of launching a search fund
- Learned about the search fund process, paper LBO's, industry & company valuation, Excel tools & shortcuts
- Presented industry thesis on playground equipment installation & maintenance

Daily Challenge Teaching Intern | March 2022-June 2023

Paid Math Intern - Expii, Inc.

- Taught competitive math to national & international students live through a redesigned Zoom
- Actively engaged with students & fostered enthusiasm, utilizing techniques such as maintaining a positive demeanor, posing thought-provoking, non-rhetorical questions, & providing constructive feedback
- Adapted to cover for co-TA during technology issues by thinking on our feet, becoming proficient with equipment by practicing with fellow TA's, & discovering time-saving shortcuts to maintain a seamless learning experience

Leaderships & Organizations

Northwestern Bridge Club | January 2024-present

Vice President - Northwestern University

- Qualified fully funded Northwestern team for the 2024 Collegiate Bowl Nationals, placing in the top 12 for teams and 4th in pairs
- Revived club with funds & marketing ideas, coached new and existing members, designed merchandise
- Traveled to club games & intercampus tournaments

Climate Innovation Challenge | December 2023-February 2024

Project Member - virtual

- Presented & collaborated with global students to design eco-friendly solutions for new e-commerce platform B2BeTrade
- B2BeTrade generated a monthly revenue of 30,000 Taka 6 months later, implemented electric vehicles and jute packaging, while exploring mushroom packaging, all eco-friendly options our team researched

Matriculate | October 2023-present

Advising Fellow Leadership Team Member – Northwestern University

- Program to mentor high-achieving, low-income students with the college application process, personally mentored two students
- Collaborated as a team of 5 to set and reach recruitment goals through club fairs, marketing, & emails, led fellowship meetings, interviewed applicants, trained new Advising Fellows, designed social events

Buchholz Math Team | July 2018 – June 2023

Team Member - Buchholz High School

- Held the national championship title for five consecutive years
- Served as captain for various bowl events during competitions, often leading Team A consisting of top 4 individuals in the division

Awards

Deloitte's Understand Case Competition 2024 | February 2024

Case-io Calculators - Northwestern University

- Achieved second place
- Presented & collaborated in team of 4 to design a high-quality business solution for a café that would establish a brand identity & increase profits within 28 hours, acquiring skills in research, data collection & analysis, & working under pressure

World Youth Bridge Team Championships | December 2022 – Present

Member of Team USA - Veldhoven, Netherlands

- Collaborated with team of 6 to optimize lineups by conducting research on opponents' strategies & aligning them with our team's best defenses along with considering each team member's scheduling preferences & the importance of rest intervals
- Engaged in rigorous training with mentors, involving partnership practices & team practices for 10 hours every week

Math Prize for Girls | October 2022

Advantage Testing Foundation/Jane Street - MIT

- Math competition for top 250 high-scoring female mathematicians on the AMC test

Technical Skills

Developer Tools: Excel, PowerPoint, Python Pandas, MatLab

Dear Arianna and recruiting team,

I was so excited to find out about the SCALP Trade trader internship through an upcoming university career fair on Handshake because it is exactly the type of internship I am looking for: an opportunity to bring my spontaneous yet systematic thought process to a diverse team, while simultaneously gaining practical experience in trading.

As a team of five in the Climate Innovation Challenge program, we offered consulting guidance to our project partner, B2BeTrade—an ecommerce platform shifting to more environmentally conscious transactions between manufacturers and retailers. Ideas about large delivery bikes naturally arose from my Bangladesh teammates and seaweed packaging was a prospect introduced by an Oxford University mentor, while my initial focus was on financial incentive additions for both sides of the platform. From this project, I realized the significance of cultural impact on an individual. With this invigorated appreciation for a team rich in experiences and backgrounds, SCALP Trade's collaborative culture captivated my attention. In a group setting, my spontaneity can generate unique ideas for others to dwell on, as well as extend upon others' thoughts.

Although my mind explodes in a million directions at the excitement of a fresh topic, my thought process resumes its systematic approach soon after. More than just maintaining Google Calendar and planning detailed documents to keep a project organized, it verifies that everyone is on the same page for clarity, timeliness, and accuracy. Tackling each aspect of a multifaceted endeavor in a methodological manner prevents the overlooking of details while maintaining a bird's eye view for how everything comes together. Over the summer, I was the project coordinator of Project TEAMSTaR, a research group working in collaboration with NASA to design interventions to improve and measure team performance. With such a complex project, not only was the organization important, communication with all parties—mentors, colleagues, NASA representatives, full lab members—was essential to ensure that progress was smooth and the entire team worked towards a common goal while everyone worked on distinct areas.

The aspect of trading that initially attracted me was prediction through pattern recognition. Would I be able to foretell the futures of stocks and recognize the cycles, a process that became second nature through playing bridge, reading books, and watching movies? At the same time, the career path offered a refreshing work environment filled with novelty and excitement, critical components for someone like me who thrives on exploration and adventure. Additionally, math has always been my language, a subject that presents interesting problems with creative solutions, yet always arriving at the same black-and-white answer. Trading presents these complex cases filled with a million variables of everyday events that will converge in a single direction, up or down. At the same time, these problems have infinite solutions with models that constantly evolve. I want to provide a perspective in this molding process, becoming a detective who picks up the subtle clues that others blow past.

In particular, the small firm culture at SCALP Trade promotes a close-knit and collaborative atmosphere within this industry. With a spontaneity building off of others' thoughts, as well as providing inspiration to the group, I agree that the whole is greater than the sum of the parts. From a training point of view, I am interested in both the classroom curriculum that this internship offers, as well as the real-world experience from projects with experienced traders. The highly intelligent community and constantly evolving environment of trading form a stimulating and challenging career path, attracting me to SCALP Trade.

I'd love the opportunity to learn from and contribute to the SCALP Trade community. I am confident that my ability for team collaboration and distinctive problem-solving methods will be valuable to your team. Thank you for considering my application.

Sincerely,
Nicole Qian