

Yijia (Jessica) Zhu

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Education

BBA; University of Notre Dame , Business Administration (Finance); Mathematics	South Bend, IN
BS	Aug 2024 – present
<ul style="list-style-type: none"> GPA: 4.00/4.00 Greater China Scholarship (Frank Reilly Scholar) Dean's List (All semesters) Julie Lederer Award for best performance in Math Reasoning Planned graduation: May 2027 	

Experience

Notre Dame Venture Capital , General Partner (since Jan. 2026); Project Team Analyst	Notre Dame, IN
<ul style="list-style-type: none"> Leading growth advisory project with General Atlantic, benchmarking AI monetization strategies across leading B2B tech saiestartups Source deals and propose investments for NDVC's endowment fund, leading investment associates Conducted early-stage deal sourcing in B2B SaaS vertical with AI-integrated deal-sourcing tools, pitched to Teamworthy ventures 	Sept 2025 – present 4 months
Unleashed Social Ventures , Macy Corps Project Team Analyst	Notre Dame, IN
<ul style="list-style-type: none"> Designed a structured framework with Excel DCF analysis to evaluate asset portfolio financially and ecologically Built an analytical pipeline to assess risk drivers and return sensitivity Wrote a comprehensive report and executive summary template, presented to Forest Carbon 	Sept 2025 – Dec 2025 4 months
Independent Project- Oil-Price Factor Portfolio & Capital Planning , Analyst	Notre Dame, IN
<ul style="list-style-type: none"> Oil-price factor portfolio management and backtesting across multiple sectors with rebalancing Capital budgeting and planning analysis evaluating scalability and marginal returns across capital levels 	Nov 2025 – Dec 2025 2 months
Independent Project- Financial Statement Intake & DCF Valuation System , Analyst	Notre Dame, IN
<ul style="list-style-type: none"> Financial statement ingestion and normalization for forecasting, KPI tracking, and valuation; web-site in Java DCF valuation modeling linking operational changes (e.g., labor overtime) to FCF and enterprise value 	Sept 2025 – Oct 2025 2 months
Independent Project- Health Claims Data Analysis , Health Claims Data Analyst	Notre Dame, IN
<ul style="list-style-type: none"> Built a health claims cohort to analyze 30-day readmissions and post-discharge costs Engineered utilization features and modeled readmission risk with SAS, website in JavaScript 	June 2025 – July 2025 2 months
Polar Park AI , Founder	Notre Dame, IN
<ul style="list-style-type: none"> Developing software to implement AI applications into daily social-media based workflows Building pipeline to produce diverse AI agents with designated personalities and knowledge base 	July 2025 – present 7 months
Student International Business Council (SIBC) , McKinsey & Co. - Montana de Luz Impact Consulting Travel Team Analyst	Notre Dame, IN
<ul style="list-style-type: none"> Identified threats to sustainable donations through financial report analysis and market research Designed donor-retention programs and events (e.g., US Impact event, newsletter), presented to stakeholders Advised CRM (HubSpot) implementation to automate donor tracking and engagement, Configured dashboards and tech guidelines 	Sept 2024 – Dec 2024 4 months
Student International Business Council (SIBC) , Protiviti - Target Consulting Travel Team Analyst	Notre Dame, IN
<ul style="list-style-type: none"> Identified core issues: inventory shrinkage, warehouse inefficiencies, e-commerce competition Built dashboard and delivered a market research presentation to summarize findings with Power BI Suggested VR-based solutions for training, in-store experience, and warehouse operations; compiled slide deck Planned technology adoption timeline with risk/benefit analysis; Conducted competitor case studies 	Sept 2024 – Dec 2024 4 months

Bloomberg, Experience Program Participant

- Gained exposure to sales, customer support, and analytics in a financial data environment

Shanghai, China
July 2025 – July 2025
1 month

Nomura Orient International Securities, Summer Camp Co-Director

- Planned activities and schedule for a 3-day camp
- Designed information sheets and presentation templates for an IPO project

Shanghai, China
June 2024 – Aug 2024
3 months

Research

University of Notre Dame, Researcher, Black-Scholes Numerical Approximation

- Investigating finite-difference schemes for option pricing under non-ideal market conditions
- Built Python solvers and analyzed convergence, stability, and monotonicity
- Engaged financial datasets with SQL; conducted stress tests to validate numerical stability

Notre Dame, IN
Aug 2025 – present

Shanghai Jiao Tong University, Researcher, Emotional Imagery Perception in Adolescents

- Processed EEG data (~50 subjects) using Python (MNE), MATLAB and Stata
- Performed time-domain feature extraction around behavioral timestamps
- Conducted statistical analysis linking signal patterns to perception metrics

Shanghai, China
Jan 2023 – present

Leadership

China Neuroscience Youth Association (NPO), Founder, Advisor

- Coordinated sponsorships and funding across 10+ cities
- Directed three conferences (430+ participants, 5+ nations)
- Secured sponsorships from HSBC (2024) and China Industrial Bank (2025)

Shanghai, China
Mar 2023 – present

Unrestrained Festival Orchestra (URFO), Co-founder, Violinist

- Coordinated sponsorships, fundraising, and marketing for a 60-member orchestra
- Organized three concerts (100+ audience each)

Shanghai, China
Sept 2022 – present

Chamber Music Group, Violinist

- Performed chamber works by Mozart, Mahler, and Shostakovich
- Performed at noon concerts and master classes

Notre Dame, IN
Sept 2024 – present

Notre Dame Symphony Orchestra, Violinist

- Weekly rehearsals and five annual concerts with guest soloists

Notre Dame, IN
Sept 2024 – May 2025

Do the Math Channel, YouTube Creator

- Explained math and logic topics for a general audience
- Created music content using AI platforms to convey philosophical themes

Notre Dame, IN
Sept 2025 – present

Marvelous, Independent Writer

- Wrote film-inspired fan fiction and original short stories
- Explored philosophical questions through narrative

Notre Dame, IN
July 2025 – present

Skills

Languages: English (Native), Mandarin (Native), Cantonese (Intermediate), Latin (Intermediate)**Technical:** Python (MNE; numerical methods; data analysis; QA), SQL, R, SAS, JavaScript, Excel, Powerpoint, MATLAB, Stata, RevMan**Interests:** Violin (15 years), soccer, puzzles, cycling