

Yunwei (Jade) Cao

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EDUCATION

University of North Carolina at Chapel Hill

Master of Science, Major in Information Science

Chapel Hill, NC, USA

2022.1-2023.12

Beijing Language and Culture University

Bachelor of Economics, Major in Finance

Beijing, China

2017.9-2021.6

- Awarded top 10% merit scholarship for three consecutive years

SKILLS

- **Tech Tools:** Python, HTML, SQL | R, MATLAB, Stata | Git, VS Code, Docker, AWS, Tableau, ChatGPT
- **Applied Knowledge:** Large Language Model, Math & Algorithms, Statistical Modeling, Network, Database
- **Strength:** Rapid tech adoption, Patience, Collaboration, Organizing, Cultural fluency, Problem-solving skills

EXPERIENCE

Lee County High School

Teacher, Computer and Information Tech, CTE Department

Sanford, NC

2024.8-Present

- Teach introductory computing and IT courses using a mix of lectures, hands-on labs, and project-based learning.
- Engage with **90+ students** across diverse backgrounds; adapt instruction to support varying learning styles and encourage growth mindsets.
- Integrate **AI-in-education trends** into teaching practice; experiment with emerging tools and research-backed strategies to keep lessons relevant and future-focused.

School of Information and Library Science, UNC-CH

Research Assistant, Data Mining Lab

Chapel Hill, NC

2024.3-2024.7

- Built methods to detect and explain unintuitive patterns in machine learning models to improve transparency. (**Explainable AI**, Causal Inference, Influence Functions)

NCGrowth

Analyst, AICER Project

Chapel Hill, NC

2023.10-2023.12

- Cleaned and merged **20,000+ vendor records** to identify qualified small businesses for large institutional buyers. (Excel, Python)
- Worked with cross-functional teams to **drive timely deliverables** and support regional economic development. (Excel, Python)

Ally Financial Inc.

Tech Scholars, Ally Tech Labs, [Link](#)

Charlotte, NC

2023.2-2023.5

- Designed **dashboards** and machine learning models to analyze and classify consumer response data, improving issue tracking and automation. (Pandas, Matplotlib, Scikit-learn) ([demo](#))
- Developed a **web app** prototype using traditional NLP techniques to summarize blog content and enhance user experience. (Flask, NLTK)

CITIC Securities

Assistant Finance Manager, Wealth Management Center

China

2020.3-2020.5

- Conducted **risk analysis** on listed stocks to guide product positioning aligned with client risk profiles. (VaR)
- Visualized private placement yields and organized roadshow insights to support data-driven investment advice.

PROJECTS

- Reproduced classic **machine learning solutions** to rank research papers, clean noisy labels, and analyze sentiment, strengthening understanding of core models and applications. (Ensemble Models, LLMs, EM algorithm, Logistic Regression, Naïve Bayes, Decision Trees)
- Applied core **statistical methods** to analyze healthcare data for trends and group differences. (Regression, ANOVA, Time Series Analysis)
- Analyzed unicorn startups through an industry overview and a **case study** of Shein, evaluating its business model and market strategy. ([Link](#))
- Led a 4-member team in a national competition to study how user engagement affects app competitiveness; completed **full research cycle** from survey design to modeling and won “Best Research Award” with \$1,000 grant. (SPSS)