

# Yunwei (Jade) Cao

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## EDUCATION

<b>University of North Carolina at Chapel Hill</b> <i>Master of Science, Major in Information Science</i>	Chapel Hill, NC, USA 2022.1-2023.12
<b>Beijing Language and Culture University</b> <i>Bachelor of Economics, Major in Finance</i> <ul style="list-style-type: none"><li>Awarded top 10% merit scholarship for three consecutive years</li></ul>	Beijing, China 2017.9-2021.6

## 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

<b>Lee County High School</b> Teacher, Computer and Information Tech, CTE Department <ul style="list-style-type: none"><li>Teach introductory computing and IT courses using a mix of lectures, hands-on labs, and project-based learning.</li><li>Engage with <b>90+ students across diverse backgrounds</b>; adapt instruction to support varying learning styles and encourage growth mindsets.</li><li>Integrate <b>AI-in-education trends</b> into teaching practice; experiment with emerging tools and research-backed strategies to keep lessons relevant and future-focused.</li></ul>	Sanford, NC 2024.8-Present
<b>School of Information and Library Science, UNC-CH</b> Research Assistant, Data Mining Lab <ul style="list-style-type: none"><li>Built methods to detect and explain unintuitive patterns in machine learning models to improve transparency. (<b>Explainable AI</b>, Causal Inference, Influence Functions)</li></ul>	Chapel Hill, NC 2024.3-2024.7
<b>NCGrowth</b> Analyst, AICER Project <ul style="list-style-type: none"><li>Cleaned and merged <b>20,000+ vendor records</b> to identify qualified small businesses for large institutional buyers. (Excel, Python)</li><li>Worked with cross-functional teams to <b>drive timely deliverables</b> and support regional economic development.</li></ul>	Chapel Hill, NC 2023.10-2023.12
<b>Ally Financial Inc.</b> Tech Scholars, Ally Tech Labs, <a href="#">Link</a> <ul style="list-style-type: none"><li>Designed <b>dashboards</b> and machine learning models to analyze and classify <b>consumer response data</b>, improving issue tracking and automation. (Pandas, Matplotlib, Scikit-learn) (<a href="#">demo</a>)</li><li>Developed a <b>web app</b> prototype using traditional NLP techniques to summarize blog content and enhance user experience. (Flask, NLTK)</li></ul>	Charlotte, NC 2023.2-2023.5
<b>CITIC Securities</b> Assistant Finance Manager, Wealth Management Center <ul style="list-style-type: none"><li>Conducted <b>risk analysis</b> on listed stocks to guide product positioning aligned with client risk profiles. (VaR)</li><li>Visualized private placement yields and organized roadshow insights to support data-driven investment advice.</li></ul>	China 2020.3-2020.5

## PROJECTS

<b>Machine Learning Specialization, <a href="#">Link</a></b> <ul style="list-style-type: none"><li>Helped EPA scientists review air pollution research more efficiently by developing a solution to rank large-scale relevant references for policymaking. (Ensemble Models)</li><li>Optimized supervised learning performance by resolving inconsistent labels from non-expert annotators. (Expectation-Maximization Algorithm)</li><li>Analyzed movie and shopping reviews to detect sentiment, comparing classic models to improve prediction quality. (LLMs, Naïve Bayes, Logistic Regression, Decision Trees)</li></ul>	2022.8-2023.8, Chapel Hill, NC, USA
<b>Data Analysis Specialization</b> <ul style="list-style-type: none"><li>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)</li></ul>	2019.9-2020.9, Beijing, China