

ASPEN Y. WANG

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RESEARCH OBJECTIVES

My passion for exploring human-centered applications of language technologies has driven me to pursue research opportunities that lead to graduate studies in NLP and LLM. My research interests include decision-making, knowledge reasoning, machine translation, speech synthesis, and human-computer interaction. I wish to contribute to the development of AI systems that improve linguistic accessibility and enable seamless, context-aware communication across user communities.

EDUCATION

Vassar College <i>B.A. in Computer Science, minors in Statistics and History; GPA: 3.35/4.0</i> <i>Expected Graduation: May 2026</i> <ul style="list-style-type: none">– Relevant Coursework: Analysis of Algorithms, Data Structures and Algorithms, Computer Organization, Theory of Computation, Linear Algebra, Calculus 3– Planned Coursework: Computational Linguistics, Data and its Discontents, Bayesian Statistics, Statistical Machine Learning	Aug. 2022 – Present <i>Poughkeepsie, NY</i>
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RESEARCH EXPERIENCE

Summer Research Intern <i>Depositar Lab, Institute of Information Science, Academia Sinica</i> <ul style="list-style-type: none">– Advisor: Dr. Tyng-Ruey Chuang– Area of Work: Database Management, Data Analysis, Digital Preservation, Research Data Management• Designed a reusable ETL pipeline for migrating the digital archive database, adhering to FAIR data principles, and documented the process as a comprehensive guideline for future use.• Conducted literature review on research data management plans, persistent identifier protocols, and open data policies, and summarized findings into a detailed analysis report.• Upgraded and maintained an outdated JavaScript web app to improve functionality and performance. Bundled as a ready-to-publish NPM package to support research tool dissemination.	May 2024 – Aug 2024 <i>Taipei, Taiwan</i>
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PROFESSIONAL EXPERIENCE

Digital Systems Intern <i>Vassar College Library</i> <ul style="list-style-type: none">• Worked on automating metadata ingestion and digital media uploads for library archives, applying metadata standards to improve data quality and reproducibility.	Sep 2024 – May 2025 <i>Poughkeepsie, NY</i>
Summer IT Volunteer <i>Spring Sprouts Innovation for Social Services</i> <ul style="list-style-type: none">• Contributed to the development and maintenance of the NPO’s website infrastructure and conducted data-driven analysis to inform marketing strategies for fundraising initiatives.	Jun 2023 – Jul 2023 <i>Taipei, Taiwan</i>

EXTRACURRICULAR ACTIVITIES

Graphic Designer <i>Portrait Magazine</i> <ul style="list-style-type: none">• Led design discussions on article layout and visual presentation for Vassar’s semesterly Asian American Student Magazine, integrating principles of graphic design and audience engagement.	Sep 2022 – May 2024 <i>Poughkeepsie, NY</i>
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RELATED PROJECTS

Live Forum Topic & Sentiment Analyzer <ul style="list-style-type: none">• Working on a full-stack research prototype that leverages a pre-trained BERT-based model fine-tuning with manual annotation to categorize online forum posts into domain-specific topics, detect political leaning, and visualize community emotional trends and hidden patterns.	Apr 2025 - Present
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SKILLS

Natural Languages: Chinese(Mandarin):Native, English:Full Proficiency, French, Hokkien: Conversational Programming Languages: Python, JavaScript, Java, SQL, C/C++ , Ocaml	
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