

Dear Admissions Committee,

I am writing to express my strong interest in pursuing MA in Economics at Yale University. As an undergraduate student majoring in Economics and Mathematics at Renmin University of China, I have cultivated a solid foundation in quantitative analysis, economic theory, and data-driven research.

During my time at Renmin University, I achieved a GPA of over 3.8 in the dual-degree program while excelling in rigorous courses such as *Machine Learning* (97), *Academic Writing* (97) as well as *Probability Theory* (96). My coursework not only equipped me with a solid theoretical foundation but also inspired me to apply these tools to real-world problems.

My research experiences have equipped me with valuable skills in data analysis, academic writing, and collaborative problem-solving. As a Research Assistant at Renmin University's School of Economics, I independently processed large datasets, and contributed to revisions of several papers that were later published in top-tier journals. This role not only honed my technical proficiency in tools like Python and Stata but also deepened my appreciation for rigorous empirical research. Additionally, during my internship at the International Monetary Fund (IMF), I analyzed over 2,000 data points from an international trade forum to assess the role of RMB in global trade, participating actively in departmental discussions. Furthermore, as part of a joint project between Cambridge University and China's National Social Science Foundation, I cataloged more than 500 archival documents using Access, contributing to a study on occupational structure divergence between China and the West (1500–1900). These experiences underscore my ability to tackle complex challenges through interdisciplinary approaches.

Looking ahead, I am eager to deepen my knowledge and contribute to cutting-edge research initiatives at Yale University. The interdisciplinary nature of your MA in Economics aligns perfectly with my aspirations to bridge economics, data science, and policy-making. Specifically, I am interested in exploring international economics, and I believe that the resources and mentorship available at Yale University will enable me to achieve these goals.

Thank you for considering my application. I am confident that my background, combined with my passion for learning and innovation, makes me a strong candidate for your program. I look forward to the opportunity to contribute to and grow within the vibrant academic community at Yale University.

Sincerely,

Yuexi Cao