Application for Data Science Master's Program

Admissions Committee

Berkeley

[Zhongguancun Street, Haidian District]

[Beijing, China]

[2025-3-12]

Dear Members of the Admissions Committee,

As a senior undergraduate majoring in Economics at the School of Economics, Renmin University of China (RUC), I am writing to express my strong enthusiasm for the Data Science Master's Program at Berkeley. With rigorous academic training in quantitative analysis, policy evaluation, and data-driven decision-making, I am confident that my background aligns seamlessly with the interdisciplinary vision of your program.

Academic Preparation

During my studies at RUC, I prioritized building a robust foundation in both economic theory and computational methods. Among the - Machine Learning and Economic Forecasting (Python)

- High-dimensional Statistical Modeling

- Big Data Computing Framework (Spark)

- Data Visualization

- Deep Learning courses I completed, several were pivotal in shaping my analytical rigor:

Core Economics: Intermediate Micro/Macroeconomics, Econometrics, Development Economics

Quantitative Tools: Mathematical Analysis, Probability & Statistics, Python Programming

Specialized Electives: Machine Learning for Economic Research, Big Data Analytics, Advanced Econometric Modeling

These courses not only earned me a GPA of 3.92/4.0 (top 5% of my cohort) but also equipped me to conduct original research.

Research & Practical Engagement

Additionally, my internship at my origin institution exposed me to real-world applications of Data Science. By [describe tasks: e.g., optimizing pricing models using stochastic optimization, building predictive dashboards with TensorFlow], I recognized the transformative potential of merging economic intuition with cutting-edge computational tools.

Why Berkeley?

Berkeley's commitment to interdisciplinary collaboration, experimental economics labs, renowned faculty deeply resonates with my aspiration to address labor market disparities through AI-driven policy simulations. The program's partnerships with central banks, data science hackathons would empower me to bridge the gap between academic research and societal impact.

Future Vision

Long-term, I aspire to lead data-informed policy design at international organizations like the World Bank or pursue a PhD in behavioral economics]. I am convinced that Berkeley's global perspective and innovation-driven curriculum will serve as the ideal catalyst for this journey.

Enclosed are my transcripts, letters of recommendation, and a writing sample demonstrating my analytical capabilities. I would be honored to contribute to Berkeley's academic community and welcome the opportunity to discuss my application further.

Thank you for your consideration.

Sincerely,

Duan Yi