

HONGZHEN DU

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Education

Xi'an Jiaotong-Liverpool University

Sep. 2019 – Jun. 2023

Bachelor of Economics | Finance Track

Suzhou, China

- **Overall Grade:** 71/100 (First Class Honours Degree)
- **Winter School:** *Imperial College London*
(Computer Vision and Natural Language Processing, *Grade: 85/100*)

Relevant Coursework

- Multivariable Calculus
- Linear Algebra
- Differential Equations
- Financial Management
- Probability and Statistics
- Econometrics
- Microeconomics
- Macroeconomics

Working Experience

Orient Securities

Jul. 2021 – Aug. 2021

Summer Intern, Asset Management Department

Guangzhou, China

- Took charge of tracking daily dynamics and wrote commentary on fluctuations in China's A-share market.
- Archived transaction records from Wind Database and summarized market trends and activities in reports.
- Attended daily and weekly meetings and dealt with meeting minutes.

Research Experience

Word Representation in Biomedical Domain Under Natural Language Processing | Group Member Feb. 2022

- Performed Word Embedding through N-gram model, utilized PCA to reduce dimensionality and visualized 50 biomedical entities extracted from a sample dictionary with 1800 words by t-SNE.
- Executed name entity recognition and analyzed the relevant words co-occurred with COVID-19 through comparing PMI and filtered the Top 10 most semantically similar entities by calculating cosine similarity.

Comparison between Domestic and Foreign Output Gap | Research Assistant with Prof. Syed Abbas Oct. 2021–

- Utilized HP filters to generate output gap and potential output through monthly and quarterly total trade, GDP and IPI statistics after data cleaning and exported dataset containing trade weights and output gap through STATA.

Regression Analysis on National Life Expectancy | Co-leader

Oct. 2021- Nov. 2021

- Presented verification on correlation hypotheses between the life expectancy in chosen countries, tertiary enrollment rate and health expenditure per capita through STATA and data interpretation in reality based on T-test and F-test.

Governmental Regulation in Chinese Online Game Industry | Member

Jan. 2020 - Apr. 2020

- Categorized the existing ethical problems and changes in government regulatory policies and departments in the past decade of Chinese game industry

Leadership Experience

Policy analysis of Hong Kong and Thailand during 1997 Financial Crisis

Feb. 2022 – Apr. 2022

Group Leader, MPIF Capstone Project Excellence Award, Advisor: Prof. Dave Schabes

University of Chicago

- * Introduced the both exchange rate system under different choices in the monetary trilemma and presented the connections dynamically between monetary policies and the movements of GDP and short-term interest rate.
- * Analyzed the reasons why the domestic currency overvaluation and current account deficit impacted the overall economy and demonstrated the rationale of corresponding fiscal and monetary policies on economic conditions.

LinkedIn (China) Global Business Challenge

Oct. 2021 – Nov. 2021

Team Leader

- * Analyzed the current business model of LinkedIn (China) after withdrawing social functions and forecast future user growth patterns under possible new features.
- * Investigated the feasibility of offering online professional courses with widely recognized certificate for possible job seekers, aimed at filling skill gaps.

Research on Promoting Local Product by E-commercial Live Broadcast

Dec. 2020 – Apr. 2021

Co-leader, Runner-up of University Social Practice Competition

Xi'an Jiaotong-Liverpool University

- * Proposed the overall research portfolio and put forward 3 possible industries and feasibility research.
- * Organized the field investigation to select the local representative in presentation – Su Yin Jewelry.
- * Directed a roadshow that reproduced the research process and performed a mixture of drama, live broadcast and hip-hop.

Additional Information

Computer Skills: Python, Stata, MATLAB, EViews, Octave, LaTeX

Language: Chinese (native), English (fluent), Cantonese (fluent), Spanish (elementary)

Interests: Travel, Urban Exploration, Fan Mail, Trainspotting, Drama