

# ChenXiangyu

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## Education

- **Tsinghua University**  
September 2021 ~ Present  
Dual Degree in Computer Science and Finance  
GPA: 3.78, Ranking: 6
- **High School Affiliated to Renmin University of China**  
September 2018 - July 2021

## Research Experience

- **PPP Projects: Catalyst or Barrier for Private Capital Investment?**  
December 2022 ~ Present  
Research on the catalytic effect of state-owned capital investment on private capital investment in China. Utilized an SQLite database and developed a set of tools using Python and the networkx library, including the application of breadth-first search algorithm, for conducting equity penetration analysis of companies. This analysis involved calculating state-owned capital proportion, equity similarity, and assessing company connectivity. The findings reveal a correlation between the proportion of state-owned capital in PPP projects and the equity relationships among enterprises. Notably, higher transfer payments in western regions are associated with a greater proportion of state-owned capital in PPP projects.
- **Research on informal finance in China**  
October 2022 ~ Present  
Currently participating in the SRT project, focusing on the composition structure of China's financial system, the informational advantages of informal finance, and the connection between informal finance and social factors.
- **Research Assistant**  
Assisted in developing a web crawler to scrape tender data from the China Government Procurement website (<http://www.ccgp.gov.cn>).

## Project Experience

- **Program Design Training Summer Session, Department of Computer Science and Technology**  
Developed a checkers game using C++ and Qt.  
Crawled programming community blog articles using Python.  
Developed a website using Django framework.
- **Principles of Accounting, Course Project**  
Researched the financial conditions of three listed American fast-food companies, Wendy's, McDonald's, and Parkson, and analyzed their future development.
- **Fundamentals of Programming, Course Project**  
Developed a simple Linux shell that can handle user input commands and file concatenation.

## Skills

- Proficient in C++ and Python, with experience in R.
- Strong understanding of Probability Theory and Mathematical Statistics, Linear Algebra and Advanced Algebra.
- Achieved an A grade in Econometrics(I).
- Skilled in Data Structures and Algorithms, as well as Object-Oriented Programming, enabling me to develop complex and efficient code.
- TOFEL Reading score: 29 / 30.

## Social Practice

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- **research on the fiscal condition of Bazhou City, Hebei Province**  
Analyzed the reasons for its poor fiscal situation, such as the closure of the four major steel plants due to environmental policies leading to increased environmental costs, decreased land sales income due to decreased housing demand caused by population movement restrictions during the pandemic, and reduced transfer payments from higher levels of government.

## Awards

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- Excellent Scholarship for Social Practice at Tsinghua University