# LINGYU ZHOU

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## EDUCATION

**Univeristy of Wisconsin-Madison**                                Sep 2020 - May 2023
*College of Letters & Science*                                               GPA: 3.898
Bachelor of Science in Mathematics | Data Science Certificate

**Cornell Univeristy**                                            Aug 2023 - Dec 2024
*Master of Professional Study*                                               GPA: 3.914
Applied Statistics | Data Science

**TOEFL**     100 (26 R + 27 L + 23 S + 24 W)
**SAT**       1430 (640 V + 790 Q)
**GRE**       326 (156 V/71% + 170 Q/+98% + 4.0 AW/54%)

## PUBLICATION

**Basic Analysis of Hog Futures Market in China** (https://doi.org/10.1007/978-981-99-6441-3_96),
from **Applied Economics and Policy Studies**

Author: Chen Xu, **Lingyu Zhou**, Anshi Lou, Manqi Qiu, Mengyu Cao

Content: This paper aims to provide an illustration and basic analysis of the characteristics and
influences of the newly emerging type of futures in the Chinese market - hog futures and to provide
a general overview of the performance of the futures under different circumstances. The paper also
breaks down the role, impact, consequences, and brief forecasts of different types of the market from
different perspectives and concludes with an evaluation and summary of the maturity and reliability
of Chinese hog futures, which can serve as guidance or advice for people or organizations planning
to get involved in business related to hog futures.

## RESEARCH EXPERIENCE

**China's Finance and Marketing Analysis Research**                    Jul 2022 - Sep 2022
*Undergraduate Research, directed by Prof. Martin Cherkes (**Princeton University**)*

· Studied under Prof. Cherkes regarding topics of securities and market analysis.
· Accomplished 4 hours of meeting each week for 6 weeks for lectures.
· Accomplished 5-6 hours of meeting each week for 4 weeks for the paper.
· Wrote, organized the 40-page paper; discussed with the members to compose a paper and a final
  20-minute presentation.
· Refined and published a 20-page academic paper about Live Hog Futures' Analysis in China.

**DRP Research Program**                                            Jan 2022 - May 2022
*Undergraduate Research, directed by Jacob B Fiedler (**University of Wisconsin-Madison**)*

· Followed a PhD mentor's research regarding topics of Computability and Kolmogorov Complexity.
· 4-5 hours of reading per week; met with tutors and 2 other peers 1 hour a week for a semester.
· Discussed with the mentor and peers about certain problems and made presentation every week.
· Accomplished a 15-minute defense presentation at the end of semester.

**Innovative Wireless Sensor Networks' Application on Network
and Routing Safety**                                               May 2018 - July 2021
*Innovation project and patent, directed by Hang Shen (**Nanjing Tech University**)*

- Gained knowledge about network safety and Wireless Sensor Networks and subsidiary technologies such as Bluetooth, NFC and Zigbee.
- Discuss problem arose during experiments and projects with team members regularly.
- Gained research experiences and scientific study and experimental method
- Successfully applied for a patent (N201811148566).

## INTERNSHIP EXPERIENCES

**Shanghai SINO Environmental Technology Co., Ltd,**      May 2021 - May 2022
*Data Analysist Intern*      *Shanghai, China & Remote*

- Review, supervise and process data from environmental monitoring.
- Sort, classify and arrange the processed data using Excel and Python.
- Analyze and research data according to specific scenarios, analyze possible problems and report timely.

**Division of University Housing, University of Wisconsin-Madison**      Sep 2022 - Dec 2022
*Dining & Culinary Services Team Member*      *Madison, WI*

- Work with other students and professional staff to finish culinary and food prep work.
- Operate cash register/POS system.
- Maintaining a sanitary and inviting dining and working area.
- Serve hot and cold menu items; grill; stock and inventory food and supplies.

**Jiangsu HopeRun Software Co., Ltd.**      July 2023 - Aug 2023
*Assistant to Strategic Tech. Dept.*      *Nanjing, China*

- Study about Apache Flink, including core concepts, structure, the deployment of the platform in the local WLS, use, task submission, and analysis of the results.
- Use Linux commands TCP/IP, HTTP, netcat, etc to deploy the WSL and MQTT environment for Apache Flink
- Use MQTT and various Apache Flink's APIs in Java to process batch data, stream data simulated by netcat and MQTT in Apache Flink.
- Study about the specific process, underlying framework and logic of market research and apply them to participate in the market research of China's smart healthcare market and the production of the research report PowerPoint.

## PROFESSIONAL SKILLS

| | |
|---|---|
| **Programming Skills** | Python, Java, Stata, C++, Visual Basic, HTML, R, SAS |
| **Software & Tools** | LaTeX, Microsoft Office, SSH, PowerShell, WordPress, Linux, Adobe Premiere, Adobe Photoshop, SQL, Blender, Apache flink, Apache Hadoop |
| **Languages** | Mandarin (Native), English (Bilingual), Korean (Decent) |

## ACADEMIC ACHIEVEMENTS

Distinction of top 15% distinction in CEMC(12)

2020-2021 Dean's list (University of Wisconsin-Madison)

2021-2022 Dean's list (University of Wisconsin-Madison)

2022-2023 Dean's list (University of Wisconsin-Madison)

Distinctive Scholastic Achievement (University of Wisconsin-Madison)

## RELEVANT COURSES

| **Core Courses** | **Other Courses** |
| --- | --- |
| Multivariable Calculus | Data Science Software Engineering |
| Advanced Linear Algebra & Differential Equations | Data Programming: Python |
| Nonlinear Dynamics & Chaos | Programming: Java |
| Mathematical Analysis | Advanced Econometrics |
| Mathematical Methods in Data Science | Micro/Macro economy |
| Probability and Statistics Theory | International Trade |