LINGYU ZHOU

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EDUCATION

Univeristy of Wisconsin-Madison Sep 2020 - May 2023
College of Letters & Science GPA: 3.898/4
Bachelor of Science in Mathematics | Data Science Certificate

Cornell Univeristy Aug 2023 - Dec 2024
Master of Professional Study
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 (BPS_0799), accepted by International Conference on Business and Policy Studies (CONF-BPS 2023)

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
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
Multivariable Calculus
Advanced Linear Algebra & Differential Equations
Nonlinear Dynamics & Chaos
Mathematical Analysis
Mathematical Methods in Data Science
Probability and Statistics Theory

Other Courses
Data Science Software Engineering
Data Programming: Python
Programming: Java
Advanced Econometrics
Micro/Macro economy
International Trade

MEMBERSHIP

UW-Madison Badminton Club	Sep 2022 - Dec 2022
UW-Madison Korean "Happy Hour" Club	Jan 2023 - May 2023