

# LINGYU ZHOU

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## EDUCATION

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<b>Cornell Univeristy</b> <i>Master of Professional Study in Applied Statistics, Data Science focus</i>	Aug 2023 - Dec 2024 GPA: 3.914
<b>Univeristy of Wisconsin-Madison</b> <i>Bachelor of Science in Mathematics, Data Science Minor</i>	Sep 2020 - May 2023 GPA: 3.898

## PROFESSIONAL SKILLS

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<b>Programming Skills</b> <b>Software &amp; Tools</b>	Python, SQL, base SAS(certified), Java, Stata, R, HTML, C++, Microsoft Office, SSH, PowerShell, Linux, Apache Flink, Tableau, Apache Hadoop, PowerBI, L <sup>A</sup> T <sub>E</sub> X, WordPress, Cytoscape, AWS
<b>Professional Knowledge</b>	Regression (Linear, Multinomial, Logit, Probit, Lasso, Ridge), KNN Perceptron, ARIMA, KMeans, SVM, Decision Tree, GMM, OLS, PCA

## WORK EXPERIENCES

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<b>New York Sea Grant</b> <i>Data Engineer/Operator</i>	April 2024 - Jun 2024 <i>Ithaca, NY &amp; Remote</i>
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- Operate and maintain computer equipment regarding coastline and sea water monitoring
- Use Python, AirTable, and QGIS to analyze data from users.
- Maintain and update manuals of sea and flood database

<b>Jiangsu HopeRun Software Co., Ltd.</b> <i>Data Engineer</i>	July 2023 - Aug 2023 <i>Nanjing, China</i>
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- Deployed Apache Flink local cluster on WSL to utilize various Apache Flink's APIs to process IoT batch data, stream data simulated by TCP/IP, netcat functionalities and MQTT environment
- Conducted market research about SPD system in China's smart healthcare market and participated in the production of the research report.

<b>Shanghai SINO Environmental Technology Co., Ltd,</b> <i>Data Engineer/Analyst</i>	May 2021 - May 2022 <i>Shanghai, China &amp; Remote</i>
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- Processed, reviewed, and supervised environmental monitoring data to keep devices in flawless operations.
- Sorted, classified, and arranged the processed data using Excel and Python.
- Analyzed possible problems and reported timely; modeled to discern abnormal data from noises.

## RESEARCH EXPERIENCE

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<b>China's Finance and Marketing Analysis Research</b> <i>Undergraduate Research, directed by Prof. Martin Cherkes (Princeton University)</i>	Jul 2022 - Sep 2022
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- Conducted research regarding topics of securities and market analysis using statistical analysis, Python and Excel; conducted a final report presentation regarding the research topics and paper
- Refined and published an academic paper ([https://doi.org/10.1007/978-981-99-6441-3\\_96](https://doi.org/10.1007/978-981-99-6441-3_96)) about Live Hog Futures' Analysis in China on Applied Economics and Policy Studies (AEPS) (ISSN 2731-4006) and Advances in Economics Management and Political Sciences (ISSN 2754-1169).

<b>DRP Research Program</b> <i>Undergraduate Research, directed by Jacob B Fiedler (University of Wisconsin-Madison)</i>	Jan 2022 - May 2022
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- Followed a PhD mentor's research regarding topics of Computability and Kolmogorov Complexity.
- Discussed with the mentor and peers about certain problems and made presentation every week.
- Conducted a 15-minute defense presentation at the end of semester.