

# JING GAO

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🐙 [github.com/LZDXN](https://github.com/LZDXN)

## Education

**Washington University in St. Louis**

**Aug. 2023 – Expected 2025**

*B.S. in Computer Science, double major in Entrepreneurship, minor in Mathematics*

*St. Louis, MO*

## Technical Skills

**Programming Languages:** Python, Julia, Java, C, HTML/CSS, JavaScript, Shell

**Developer Tools:** VS Code, Git, Latex, Markdown, Google Cloud Platform, Amazon Web Service

**Technologies/Frameworks:** Linux, GitHub, ReactJS, VueJS, WordPress

**Speak Languages:** Chinese (Native), English (Proficient), Esperanto (Intermediate), Japanese (Beginner)

## Certification

**Professional Certificate Program: Large Language Models**

Databricks (edX) 2024

**Large Language Models: Foundation Models from the Ground Up**

Databricks (edX) 2024

**Large Language Models: Application through Production**

Databricks (edX) 2023

**Mathematics for Machine Learning: Linear Algebra**

ICL (Coursera) 2022

## Experience

**Washington University in St. Louis**

**Oct. 2023 – PRESENT**

*Research Assistant*

*St. Louis, MO*

- Utilized Julia programming language for developing and implementing data processing pipelines.
- Installed and maintained jupyter server application with encrypted token access.

**Research Institute of Tsinghua, Pearl River Delta**

**Jun. 2022 – Aug, 2022**

*Research Assistant & Project Manager Assistant*

*Guangzhou, Guangdong (China)*

- Constructed & evaluate machine models in severe environment.
- Sampled & analyzed data, then Specified & optimized mathematical models.

## Publication

Guo, J., & Gao, J. (2022). **Comparison of Different Machine Learning Algorithms on Cell**

**Classification with scRNA-seq after Principal Component Analysis.** 2022 7th International Conference on

Intelligent Computing and Signal Processing (ICSP). doi.org/10.1109/icsp54964.2022.9778439 [Jingkai Guo and

Jing Gao are both first authors]

## Research & Projects

**WrapperAI** | *Large Language Model, Trustworthy and Secure*

**Dec. 2023 - PRESENT**

- Developed a SaaS machine learning solution to optimize and secure the use of large language models (LLMs).
- Implemented dual-layer protection to reduce the risk of inadvertent data exposure.
- Designed a mechanism that ensures ethical interactions and provides a sensitive privacy filter for AI, prompting a safer and more responsible use of advanced AI for businesses.

**Stockfish Chess Analysis** | *Julia, Python, API, Data Analysis*

**Oct. 2023 - PRESENT**

- Developed and optimized a large-scale data processing algorithm using Julia, handling pgn files of 200GB, significantly enhancing speed and accuracy.
- Revamped the original file scanning algorithm in Julia, achieving a 100x improvement in processing speed and efficiency.
- Designed and conducted experiments with game files in the evaluation engine, utilizing Julia and game theory concepts to analyze and improve strategic game outcomes.

**Machine Learning & Computational Biology** | *Python, Machine Learning* Jul. 2021 - Mar. 2022

- Collaborated in a hybrid research environment.
- Processed large-scale lab data.
- Built and compared statistical training models.

## Honors & Prizes

**Hack WashU 2023**

Best Use of Google Cloud

2023

**HackDartmouth VIII: Into The Multiverse**

Contrary Capital - Start Up Prize and 2 more

2023

**American Mathematics Competition (AMC) 12**

First Place \* 2 (A&B)

2021

**China Thinks Big (CTB)**

National First Prize & Global Round Qualification 2021