

Yanyu Long

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Education

Master of Science in Data Science April 2022
University of Michigan, Ann Arbor GPA: 4.0/4.0

Bachelor of Science in Applied Statistics July 2020
Central University of Finance and Economics, graduated with honors GPA: 90.85/100

Coursework Highlights

- Math—Mathematical Analysis, Advanced Algebra, Discrete Mathematics, Real Analysis
- Statistics—Machine Learning, Time Series Analysis, Bayesian Modeling, Design of Experiment
- CS—Data Structures and Algorithms, Database Principles and Applications, Web Systems

Technical Skills

- **Programming** — (*Proficient*) Python, R, SQL, Data visualization (ggplot, matplotlib, D3.js); (*Familiar*) Git, Web application deployment (Flask, uWSGI, Nginx, AWS EC2), C++, Javascript, Svelte, SQLAlchemy, MATLAB, STATA; (*Exposure*) React, MapReduce, NoSQL, HPC cluster, Slurm, CUDA, OpenMP, SAS
- **Miscellaneous** — MS Office suite; \LaTeX ; Markdown; Language: Mandarin, English, Cantonese

Professional Experience

Bytedance Ltd., China Jun. 2021-Aug. 2021
Data Operation Intern at Pangle, ByteDance's Mobile Ad Platform

- Conducted product-/market-specific business analysis by ingesting data from internal DBs and external sources, analyzing and visualizing data with Python and in-house tools, and developing analytic deliverables
- Established dashboards using Tableau-style BI tool to help account managers monitor business performance
- Monitored traffic monetization data and cooperated with DE team to solve issues within existing data pipelines

Deloitte Enterprise Consulting (Shanghai) Co., Ltd., China Apr. 2020-Aug. 2020
Project Intern at Risk Advisory FSI Department

- Wrote a program in Python to mine company-level financial data and establish rules to alert financial risks
- Crafted a strategic plan for resolving existing debts of local government financing vehicles in Zhuanghe
- Wrote a [Python script](#) to visualize companies' ownership structure using Graphviz

Research and Publications

Dongsheng Sun, Yifang Liu, Jason Grant, **Yanyu Long**, Xiaojuan Wang, Chaoping Xie (2021). Impact of food safety regulations on agricultural trade: Evidence from China's import refusal data. *Food Policy*, volume 105, 102185. DOI: <https://doi.org/10.1016/j.foodpol.2021.102185>.

- Collected, cleaned, analyzed, and visualized data to provide insights on China's import refusal patterns
- Built a web crawler with Python to gather information on China's food safety national standards
- Crafted a report on China's evolving food safety regulations and their impacts on food import

Project Experience

Customer Medical Service Records Management System Prototype Design Jan. 2021–Feb. 2021

- Designed a MySQL database to store service records and hosted it on an Alibaba Cloud ECS instance (IaaS)
- Built a data management interface using Flask and Javascript for data queries and manipulations

Vertical Search Engine for TV Show Scripts Dec. 2020

- Hand coded the retrieval algorithm, implemented and compared multiple ranking functions collected from literature
- Built the user interface with Flask and hosted the application with a PaaS hosting service (see [demo](#))

Awards and Honors

- Sept. 2021 **Recipient**, Outstanding Data Science Master's Student, University of Michigan
- Oct. 2019 **Recipient**, Scholarship for Academic Innovation, CUFE
- Apr. 2019 **Honorable Mention (Top 20% of Teams)**, The International Mathematical Contest in Modeling
- Nov. 2018 **National Second Prize**, China Undergraduate Mathematical Contest in Modeling
- May 2018 **National First Prize and Best Speaker**, 21st "FLTRP CUP" National English Debating Competition
- Oct. 2017 **Provincial First Prize**, China Undergraduate Mathematical Contest in Modeling