

Yujun Zhou

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EDUCATION

- University of Illinois Urbana-Champaign** 09/2023-12/2024
 - Master of Science in Information Management; GPA: 4.0
 - Courses: Data Mining, Data Visualization, Theory & Prct of Data Cleaning, Data Warehouse and BI
- The University of Manchester** 09/2022-08/2023
 - Master in Financial Economics; GPA: 3.90
- Shanghai University** 09/2018-07/2022
 - Bachelor of Science in Economics; GPA: 3.74, 91.25/100.00(Top11.2%)

PUBLICATIONS

- An Improved Grey Wolf Optimization Algorithm for Heart Disease Prediction**, [Sihan Niu](#), Yifan Zhou, Zhikai Li, Shuyao Huang, and Yujun Zhou, ICAIT 2023 accepted

PROJECT EXPERIENCE

- An Improved Grey Wolf Optimization Algorithm for Heart Disease Prediction** Champaign, US 09/2023-11/2023
 - A joint student project with Johns Hopkins University and Shanghai University
 - Employed swarm intelligence algorithms in medical data processing during the summer of 2023, integrating them with neural network backpropagation.
 - Discovered and addressed challenges in medical data processing such as rapid and slow gradient descent by incorporating an S-shaped function and the Cauchy operator.
 - Applied the enhanced algorithm to the Cleveland Heart dataset, resulting in an 8% increase in accuracy over the original Gray Wolf Algorithm.
- A Scar Segmentation System Development** Shanghai, China 04/2021-09/2021
 - Shanghai University and Shanghai Sixth People's Hospital, advised by Xuehai Ding
 - Established a U-net-based medical image segmentation model based on the realistic images of scar growths of patients obtained in cooperation with the Sixth People's Hospital of Shanghai.
 - Added a spatial attention module in jump connections to help the model better focus on lesion areas in images and improve model performance when segmenting and computing scar growth regions in images.
 - Collaborated to build an APP with Vue and Django frameworks, and the pages for doctors, patients, and administrators were designed separately.
 - Designed an image segmentation back end to achieve real-time calculation of scar area by interacting with back-end information to enable users to get feedback on the results in real-time.

INTERNSHIP EXPERIENCE

- Fixed Income Department, Guotai Junan Securities** Shanghai, China 11/2021-06/2022
 - Bond Underwriting Assistant
 - Audited the annual reports of several listed companies, including sections on issuer status, bond matters, and important matters during the reporting period.
 - Analyzed the qualities of a company's operations, profitability, and growth prospects over a year from the perspective of its financial position, operating results, and cash flows.
 - Collaborated to complete the supplement and update of important information in the prospectus, including the analysis of changes in the financial statements, improvement of the issuer's shareholding structure, main business, corporate governance, use of proceeds and debt service guarantee measures, etc.

SKILLS SUMMARY

- Tools:** Vue, Django, JS, Python, Pytorch, R, GIT, Matlab, C++, Stata