Jianghai **Chen**

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"Be the change that you want to see in the world."

Education

Nankai University *Tianjin, China*

Undergraduate in Intelligent Science and Technology *Sep. 2019 - Jun. 2023(expected)*

Major in Intelligent Science and Technology, double major in Finance

- Major GPA **87.31/100**
- Related Coursework: Probability Theory and Mathematical Statistics, Linear Algebra, Data Structure Basics, Machine Learning, Deep Learning, Reinforcement Learning

Experience

Prof. Jie Liu, Department of Automation and Intelligent Science, Nankai University *Tianjin*

Research Intern *Sep. 2020 - Aug. 2021*

- Research on the application of intelligent question and answer audit robots based on the knowledge graph.
- Project built methods that can identify questions and intelligently answer based on existing data of power audit system, integrating knowledge graph and NLP.
- Responsible for feature triad extraction, intention classification, and entity matching of input questions using natural language processing, conduct comparisons between our approach and traditional methods.
- Wrote the backend (Django) for the project and deployed the project.

Prof. Boyuan Yang, Institute of Robotics and Information Automation, Nankai University *Tianjin*

Research Assistant *Sep. 2021 - Now*

- Research on the data-driven methods in fault diagnosis, especially contrastive learning.
- Developed an unsupervised method for bearing fault diagnosis based on contrastive learning and submitted manuscript to the conference as the first author.

Prof. Yang You, High Performance Computing for Artificial Intelligence (HPC-AI) Lab, National University of Singapore *Online*

Research Intern *Mar. 2022 - Now*

- Research on scaling the depth of Transformers.

Prof. Xiaowei Chen, Municipal Innovation Projects of College Students, Nankai University *Tianjin*

Student Member *Apr. 2021 - Apr.2022*

- Research on rapid damage assessment and disaster relief application of typhoon disaster based on machine learning - Ningbo as an example.
- Built the machine learning approach for the project, screened disaster-causing indicators, and completed experimental analysis.

Activities & Awards

2021	**Honorable Mention**, Mathematical Contest In Modeling(MCM)	*U.S.A*
2021	**Finalist**, Outstanding student leader of the college	*Nankai University*
2021	**Provincial Second Prize**, Contemporary Undergraduate Mathematical Contest in Modeling(CUMCM)	*Nankai University*
2021	**Finalist**, National Inspirational Scholarship	*Nankai University*

Publication

Self-supervised Contrastive Learning Approach for Bearing Fault Diagnosis with Rare Labeled Data *ISIE 2022, Las Vegas, USA*

First Author

- To solve the problem of massive unsupervised data in real fault diagnosis, a deep learning structure using contrastive learning method was developed.
- The method makes great use of a large amount of unlabeled data and achieved good results with rare labeled data.