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nghai **Chen**

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

Education

Nankai Universitv

UNDERGRADUATE IN INTELLIGENT SCIENCE AND TECHNOLOGY 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 Si	ep. 2020 - Aug. 2021
 Project built methods that can identify and answer questions based on existing data of power audit system and knowledge g Responsible for feature triad extraction and entity matching of input questions, conduct comparisons. Wrote the backend (Dj 	
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. One paper published on ISIE 2 	2022
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. One paper about deeper Transfomer configurations submitted to NeurIPS 2022. 	
Prof. Xiaowei Chen, Municipal Innovation Projects of College Students, Nankai	Tianjin
University	
Student Member	Apr. 2021 - Apr.2022
 Research on rapid damage assessment and disaster relief application of typhoon disaster based on machine learning - Ning Built the machine learning approach for the project, screened disaster-causing indicators, and completed experimental anal 	

Activities & Awards

2021 Honorable Mention, Mathematical Contest In Modeling(MCM) IISA 2021 Finalist, Outstanding student leader of the college Nankai University 2021 Provincial Second Prize, Contemporary Undergraduate Mathematical Contest in Modeling(CUMCM) Nankai University Provincial Second Prize, National College Students' innovation and entrepreneurship training program 2022 Tianjin, China 2021 **One time**, National Encouragement Scholarship Nankai University

Publication

Self-supervised Contrastive Learning Approach for Bearing Fault Diagnosis with Rare

Labeled Data **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.

Deeper vs Wider: A Revisit of Transformer Configuration

SECOND AUTHOR

• We propose an idea of using deeper and narrower transformer configurations, for masked autoencoder training.

Tianjin, China Sep. 2019 - Jun. 2023(expected)

ISIE 2022, Las Vegas, USA

NeurIPS 2022. New Orleans. USA