

KEMING JIAO

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EDUCATION

Shanghai Jiao Tong University (SJTU)
B.Eng. in Electronic Science and Technology

Shanghai, China
Sept. 2020 - Jun. 2024

- **College:** School of Electronic Information & Electrical Engineering
- **Major GPA** (EE/CS courses): **3.72/4**; Overall GPA: 3.48/4
- **Relevant Courses:** Data Structure(A), Modeling and Simulation of Engineering Issues(A), Probability and Statistics(A), Hardware Description Language and System Simulation(A), C++ Programming(A), Mathematical Physics Method in Electronic Engineering(A), Embedded System and Interface(A-), Discrete Mathematics(A-), Signals and Systems(A-), Principles of Communications(A-)

RESEARCH EXPERIENCE

Research in Domain Adaptation in Fault Diagnosis of Roller Bearing
School of Mechanical Engineering, SJTU

Oct. 2022 - Present
Advised by Prof. Jianfeng Tao

- Changing the operating condition will make the accuracy of one **fault diagnosis** model performing well on one condition face a serious degradation on another, i.e. **domain-shift**.
- To address this issue, we proposed a **novel dual-stream multi-channel neural network based on adversarial learning**, and evaluated the effectiveness of it on the fault datasets of roller state under different rotational speed conditions.
- Our work can achieve a fault diagnosis accuracy of **over 95%** under the operating conditions of varying rotational speeds.

Imperial Data Science Online Winter School
Data Science Institute, Imperial College London

Jan. 2023 - Feb. 2023
Advised by Prof. Yike Guo

- In order to mine the deep information in a COVID-19 paper corpus, we utilized the **NLTK** to perform the tokenization and use deep learning method to **build word representations**.
- From the word representations, we could find the similarity and co-occurrence between different words and visualize the distribution of words by semantics.

TEACHING EXPERIENCE

Teaching Assistant of C++ Programming Course
School of Electronic Information and Electrical Engineering, SJTU

Fall Semester 2021 & 2022
Instructor: Prof. Jianfeng Tao

- Participated in the design of course project about **Image Edge Detection** using Qt Creator.

SCHOLARSHIP & AWARDS

Undergraduate C Scholarship (top 30% students)
The Best Overall Project in Imperial DS Winter School(top 1 of 8 groups)

Sept. 2021 - Jun. 2022
8th Feb. 2023

TECHNICAL SKILLS

Languages	Chinese (Native), English (IELTS 7.5)
Programming Languages	C++, C, Python, html, LaTeX
Tools	MATLAB, Qt Creator, Altium Designer, PyTorch