

Jia KANG

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EDUCATION

Shanghai Jiao Tong University(SJTU)

Shanghai, China

B.S. in Information Engineering, Department of Electronic Engineering

Sept. 2015 – June 2019(Expected)

- Overall GPA: 3.68/4.0 Major GPA: 3.73/4.0
- Main Courses: Machine Learning, Big Data Mining, Image Processing and Communication, Data Structures and Algorithms, Programming in C++, Database and SQL, Probability and Statistics, Convex Optimization(Graduate), Focus on Cancer.
- Honors: SJTU Academic Excellence Scholarships (2016, 2017, 2018), SJTU Excellent Student Leader(2017)

University of Melbourne

Melbourne, Australia

Exchange Student

June 2017 – July 2017

- GPA: H1 (First Class Honors); Main Course: Signals and Systems

INTERNSHIP AND RESEARCH

Siemens Factory Automation Engineering Ltd. (SFAE)

Shanghai, China

Research & Development Intern, Engineering Department, Supervisor: Jiming Wang

Dec. 2018 – Present

- Designed a grab tracking algorithm to prevent wobbling in port crane system with deep learning and OpenCV.
- Developing a method for the identification of numbers on containers at a port transportation system.

Image Processing and Deep Learning: 3D Object Tracking & Adaptive Compression

Shanghai, China

Research Assistant, Institute of Media, Information, and Network, SJTU, Advisor: Hongkai Xiong

Sept. 2017 – Present

- Developed a method to track and predict the position and posture of the handle in VR-AR surgery, which aimed to reduce the tracking loss and increase the tracking speed.
- Followed and reimplemented the work of *waveOne*, a reinventing compression framework for digital media.
- Researched on the registration of medical images and multimodal machine learning.

Knowledge Graph and Big Data Mining: Prediction of Latent Links in Knowledge Graphs

Shanghai, China

Research Assistant, John Hopcroft Center for Computer Science, SJTU, Advisor: Weinan Zhang

Apr. 2018 – June 2018

- Predicted latent links based on the known relationships among entities in knowledge graphs.
- Built and trained a model to predict possible connections among scholars, papers, and academic institutions in Acemap, an academic knowledge graph containing more than 1,000,000,000 entities.

Biochemical Analysis and Machine Learning: Fingerprint Mapping of Liquor

Shanghai, China

Research Assistant, State Key Laboratory of Microbial Metabolism, SJTU, Advisor: Fei Tao

Jan. 2016 – Mar. 2017

- Did liquid-liquid extraction and solid-phase micro-extraction of five kinds of Chinese spirits, three kinds of red wine, and three kinds of yellow wine.
- Built classifiers to distinguish liquor's types and brands with their mass spectrometric data from GC×GC-TOFMS analysis.

LEADERSHIP AND VOLUNTEER EXPERIENCE

Academic Sharing Center, Student Union at SJTU | Director

Dec. 2017 – Dec. 2018

- Designed and led a series of activities concentrated on the theme of “2018 world book day”, including reading salons, bookcrossing in campus, lectures and seminars of well-known writers, essay collection on social medias.
- Organized many on-campus and inter-university speech contests and debate competitions.
- Hosted a number of forums and debates with hundreds of audiences.

Inspiration Forum at SJTU | Team leader

Sept. 2015 – Sept. 2016

“Future Booster” Voluntary Activity for Prospective Freshmen | Volunteer & Excellent Regional Leader

June 2016 – Aug. 2016

Voluntary Tutor in Public Welfare Organization | Volunteer & Excellent Tutor

Sept. 2015 – Jan. 2016

Shanghai International Marathon, SJTU 120th Anniversary Celebration, etc. | Volunteer

SKILLS

Language: Chinese(native), English(fluent)

Programming Language: C/C++, Python, MATLAB, SQL, VHDL, Verilog, Assembly Language, LaTeX, Markdown

Frameworks for Deep Learning: Tensorflow, Keras