

WENXIN JIANG

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EDUCATION

Ph.D., Electrical and Computer Engineering, Purdue University, IN, USA Aug 2020 - present
GPA: 4.0/4.0

Study Abroad Program, Engineering Physics, UC Santa Barbara, CA, USA Mar 2019 - Jun 2019
GPA: 3.8/4.0

B.S., Applied Physics, Southeast University, Jiangsu, China Aug 2016 - Jun 2020

Relevant **Course Work**: Data Structure, Artificial Intelligence, Deep Learning, Software Engineering, Computer Network Systems, Operating Systems, Compilers, Computational Models&Methods

RESEARCH & WORK EXPERIENCE

Empirical Study on Computer Vision Reengineering, *GRA* Jan 2021 - present
- **Lead a team** of undergraduates, create a bug taxonomy, collect open-source bug reports, and analyze the dataset.
- Conduct a **case study** on TensorFlow Model Garden Team, collect reproducibility bugs, and propose best practices.

TensorFlow Model Garden Team (Google x Purdue), *ML engineer* Sep 2021 - present
- Reproduce YOLOX, mainly contribute to development and testing of the model architecture and component integration.

Preparation and Characterization of Charge-ordered Multiferroic Materials, *URA* Jun 2020 - Nov 2018
- Synthesize charge-ordered fluoride, characterize their structure, and measure other ferroelectric properties.

Experimental observation of Complex Kadomtsev-petviashvili Solitons, *RA* Nov 2017 - Nov 2018
- Formulate the experiment plan, carried out the numerical simulation by Matlab and Maple.

China Merchants Bank, *Intern* Summer 2018
- Work on data analysis and case studies for the Corporate Finance Division.

PROJECTS

Implement scanner, parser, optimizer and code generator of a **compiler** for a small programming language using **Java** and **ANTLR**, *Compiler course project* Fall 2021

Implement process synchronization, memory management, and file system using **C**, *OS course project* Fall 2021

Build customized dataset and data loader, and typical CV and NLP algorithms, using **Pytorch**, *DL course project* Spring 2021

Analyze three **ML testing** tools on TensorFlow program bugs, and write a literature review, *SE course project* Spring 2021

Implement data link, network layer routing and forwarding, reliable TCP transport, and client-server communication using **C** and **Python**, *Network course project* Spring 2021

Reproduce state-of-the-art weakly supervised instance segmentation models, using **Pytorch**, *AI course project* Fall 2020

Build a webpage of epidemic records with scraping and visualizing, using **Python**, **Flask**, *Personal project* Spring 2020

AWARD

2nd Prize - Vision Guided Robot Competition, Southeast University Sep 2019

Distinction Award, Southeast University Oct 2018

3rd Prize - Structural Innovation Invitation Competition, Southeast University May 2017

Excellent Volunteer Award, Jiangsu Development Conference May 2017

SKILLS AND INTERESTS

Technical Skills: Python, Java, C\C++, Unix, Git, Mathematica, MATLAB

Libraries: Numpy, Pandas, Matplotlib, TensorFlow, Pytorch

Languages: Mandarin (Native), English

Personal Interests: Photography, cooking, guitar