Zhanfu Yang

Personal Page: http://www.zhanfuyang.com
Email: **yangzhanfu111@gmail.com**

130 N Russel Street
West Lafayette, IN,
47906
(+1) 765-775-0242

Education

Purdue University，U.S. West Lafayette - *Master*

2018/08 - 2019/12, **Computer Science**

Sun Yat-Sen University，China, GuangZhou - *Bachelor*

2014/08- 2018/07, **Computer Science**, GPA 3.8/4.0

Samsung ‘s Scholarship(2016)
Third, Second, FIrst class scholarship(2015,2016,2017)
Outstanding Undergraduate 2018(Top 1%)
Outstanding Undergarduate thesis (Top 5%)

Work Experiecne

Stanford University，U.S., Stanford - *Research Staff*

2019/5 - 2019/8,

- Determine the feasibility of developing a cloud-based dashboard for running and monitoring pipelines.

Purdue University，U.S., West Lafayette - *Research Assistance*

2018/10 - current,

- Generative Imitation, Graph Neural Network with system graph.
- Quantum Machine Learning

National Super Computer Center in Guangzhou，China, GuangZhou - *Software Engineer Internship*

2017/12 - 2018/5

- Distributed Optimization of Chemical Application with OpenMP/MPI in Tianhe-2 Super Computer.

Sun Yat-Sen University，China, GuangZhou - *Research Assistance*

2017/9 - 2018/8 Human Cyber Physical Intelligence Integration Lab,

- Multi-domain Gan and reinforcement learning

2015/10 - 2017/8 Inplus Lab.

- A traffic flow ‘s prediction platform to predict the traffic condition
- Htcondor Platform: Utilize free computation resources in campus’s.

Technical Skill

Artificial Intelligence

Reinforcement Learning

Computer Security

Block Chain

Brain Science

Parallel Computing

Distributed System

Quantum Computing

Mathematical Model

Programing Language

C++, C, Java, Python (tensorflow, pytorch), HTML 5, PHP, CUDA-C, IOS, Andriod, Shell.

Hobby

Swimming,

Soccor(SYSU, Purdue’s soccor’s team),

Running.

Publications

[1] **Graph Neural Reasoning for 2-Quantified Boolean Formula Solvers**. Zhanfu Yang, Fei Wang, Ziliang Chen, Guannan Wei, Tiark Rompf. Preprint, ICML 2019 Workshop (Graph Neural Structure)

[2] MMI-ALI: Multivariate-Information Adversarial Ensemble for Scalable Joint Distribution Matching. Ziliang Chen*, Zhanfu Yang*, Xiaoxi Wang, Xiaodan Liang, Xiaopeng Yan, Guanbin Li, Liang Lin. Preprint, ICML 2019

Competition experience and Honor

2019:

- **Worldwide TAMUctf 19: 19th / 1866, top 1%.** 2019/2 - 2019/3

Team Member, https://b01lers.net/

1. Solve the crepto graphy problem with Chinese Remainder.
2. SQL web injection.

- **Worldwide Fireshall CTF challenge: 60th/607,top 10%** 2019/1.

Team Member, https://b01lers.net/

2018:

- **Asia Student Supercomputer Challenge 2018** - First prize, 6th/407. 2017/12 - 2018/5

Team Coach,

1. Instruct team member to install distributed system and test the Linkpad and HPCG in the system.
2. Help team member to deal with vision and NLP problem.

2017:

- **IBM Linuxone National Block Chain Hackthon Competition** - Third prize, 2017/12

Team Leader,

1. Build a credit's block chain system base on the LinuxOne. Use Chain code and Hyperledger's technology.

- **Asia Student Supercomputer Challenge 2017** - First prize, 4th / 370. 2016/12 - 2017/5

Team Leader,

1. Building cluster and install system, dug in the RDMA optimization parallel optimization biology application, optimization of Deep learning program base on Badidu' s PaddlePaddle.
2. Dug into the kernel of CentOS, cut off unnecessary power consumption, adjusted the buffer size and applied the InfiniBand carefully.
3. Optimize the network of our system by maintaining high throughput and low latency.

- **National CPU's parallel computing challenge:** Second prize
- **COMAP's Mathematical Contest in Modeling** Honorable Mention

2016:

- **Ping Gao 's Big data contest,:** First prize, high performance award, 1 th, 2016/8 - 2016/11

Team Member,

1. A Big data platform. http://zhanfuyang.com/traffic/#menu/zhuline

- **International Genetically Engineered Machine Competition**-Golden. 2016/3 - 2016/11

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Team Member,

1. A simulation program in the pre experiment of bacterial culture
2. Data collection and analysis, algorithm optimization.

- **Asia Student Supercomputer Challenge 2016** - First prize, 4th/ 342, 2015/12 - 2016/5

Team Member,

1. Building cluster and install system, the parallel optimization program about Wave's model(MPI,openMP).

- **Kaggle: Two sigma Rental** Brozen, 43th/ 2370, top 2%.
- **Intel Cup parallel computing challenge:** Bronze, Best business award
- **National University 's Mathematical Modeling Challenge:** Second Prize
- **Canton, Hong Kong's IT project competition:** Second Prize
- **National Challeng Club(Technological Business competition):** Golden

2015:

- **IBM Power National Campus Technology Contest** - First prize, 1 th/ 217, 2015/5 - 2015/11

Team Member,

1. CUDA's parallel acceleration optimization.
2. Optimize the algorithm model.

- **National University 's Mathematical Competition:** Third prize

Self-Learn interested Website Courses

- **Quantum Machine Learning - edX- Toronto**
- **Brain and Space - Coursera- Duke**

Introduction of the Brain system and how human recognize of the space and location.

- **MCB80X - edX- Harvard**

Fundamentals of Neuroscience, Introduction of the Neuora science and Brain system including the Vision, Audition, Perception and the structure of Brain.

- **6.S099: Artificial General Intelligence - edX- MIT**

Introduce our current understanding of computational intelligence and ways in which strong AI could possibly be achieved, with insights from deep learning, reinforcement learning, computational neuroscience, robotics, cognitive modeling, psychology, and more.

- **Blockchain for Business- An Introduction to Hyperledger Technologies - edX- MIT**
- **Blockchain and Cryptocurrencies - edX- Berkeley**
- **Introduction to food and Science - Coursera- Stanford**
- **Synapses, Neurons and Brains- Coursera- Hebrew University of Jerusalem**
- **Computational Probability and Inference- edX- MITc**