

# Zhanfu Yang

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130 N Russell Street, West Lafayette, IN 47906

## PROFESSIONAL EXPERIENCE

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- Machine Learning Financial(self-employment) project** West Lafayette, IN  
**Purdue Artificial Intelligence Lab** West Lafayette, IN  
*Research Assistant (Machine Learning)* Oct 2018 – Mar 2020
- Fire Detection system with Yolo-v3 and Resnet. (Advised by Berkay Celik)
  - Deep Learning in Symbolic Reasoning, GNN in SAT/2QBF Problem. (Advised by Tiark Rompf)
- Stanford University** Stanford, CA  
*Research Internship (Stanford Medicine, Machine Learning, Cloud)* May 2019 – Aug 2019
- Use Google Cloud Platform to develop a machine learning pipelines for potential disease detection.
- National Super Computer Center In Guangzhou** Guangzhou, China  
*Software Engineer Intern (Full Stack, Parallel computing)* Dec 2017 – May 2018
- Distributed optimize the chemical Application with OpenMP/MPI in the Tianhe-2 Super Computer.

## EDUCATION

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- Purdue University, Master of CS** Aug 2018 - Dec 2019  
**Sun Yat-Sen University, Bachelor of CE (Top 1% distinction)** Aug 2014 - July 2018

## SKILLS&CERTIFICATE

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**Programming languages:** Python, C, C++, Bash, Java, SQL, PHP, JavaScript, Latex, Html, Git, IOS, Node.js

**Professional Certificate:** \* Deep Learning(deeplearning.ai, ML/CV/NLP) \* IBM AI Engineering(Pytorch/Tensorflow/Keras) \* IBM Applied AI \* Data Engineer with Google Cloud \* Self-Driving Cars

**Course Certificate:** Machine Learning(Stanford) \* Casual Inference(Columbia) \* Reinforcement Learning

## SELECTED PUBLICATIONS

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

[2]**Graph Neural Reasoning for 2-Quantified Boolean Formula Solvers**

Zhanfu Yang, Fei Wang, Ziliang Chen, Guannan Wei, Tiark Rompf.

*ICML 2019 Workshop*

## COMPITETION&ACADEMIC AWARDS

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- ICML Travel Awards** Jun 2019
- Asia Student Supercomputer Challenge 2018 - First prize (Team Coach)** Dec 2017 - May 2018
- Implemented memory management system and inter-process communication
  - Instruct team member to install distributed system and test the Linkpad and HPCG in the system.
- IBM Linuxone National Block Chain Hackthon - Third prize (Team Leader)** Dec 2017
- Credit's block chain system based on LinuxOne, write the chain code with Hyperledger's technology.
- Asia Student Supercomputer Challenge 2017 - First prize (Team Leader)** Dec 2016 - May 2017
- Building cluster and install system, dug in the RDMA optimization parallel optimization biology application, optimization of Deep learning program base on Baidu's PaddlePaddle.
  - Dug into the kernel of CentOS, adjusted the buffer size and applied the InfiniBand carefully.
  - Optimize the network of our system by maintaining high throughput and low latency.
- Kaggle : What's Cooking --- 27 Among Of 1388, top 2%** Mar 2016
- Use boosting method(SVM, Regression, Random Forests) to do cooking classification tasks.
- International Genetically Engineer Machine Competition-Golden(member)** Mar 2016 - Nov 2016
- A simulation program in the pre experiment of bacterial culture
  - Data collection and analysis, Database building, Algorithm optimization.
- IBM Power National Technology Contest - First prize (Team member)** May 2015 - Nov 2015
- Optimize the algorithm with LSTM Model and Front-end website development.