

Yannan Li

PHE316, University of Southern California
3737 Watt Way, Los Angeles, CA 90089

✉ yannanli@usc.edu

Education

Curriculum GPA 3.84/4.3

Academic Rank 7/109

University of Science and Technology of China (USTC)

Hefei, Anhui, China

B.ENG. IN COMPUTER SCIENCE AND TECHNOLOGY

Sept. 2013 - June. 2017

- Granted for Excellent Graduates of University of Science and Technology of China(USTC)
- Granted for Yangya Award, which is the highest female fellowship in USTC (only 20 recipients)
- Selected to the Talent Program in Computer Science and Technology
- Research Mentor: Prof. Lan Zhang, Prof. Xiangyang Li (10 months)

University of Calgary (UC)

Calgary, Alberta, Canada

RESEARCH ASSISTANT

June. 2016 - Sept. 2016

- Selected to International Exchange Programs for Outstanding Undergraduate Students
- Fully sponsored by China Scholarship Council (China) and Mitacs Globalink (Canada)
- Optimized a 2-path algorithm on CPU/GPU Heterogeneous Platform
- Research Mentor: Prof. Yuriy Zinchenko (3 months)

Publications

- Lan Zhang, **Yannan Li (first-student author)**, Xiang Xiao, Xiang-Yang Li, Junjun Wang, Anxin Zhou, Qiang Li. CrowdBuy: Privacy-friendly Image Dataset Purchasing via Crowdsourcing, **IEEE INFOCOM 2018**.
- A patent submitted to State Intellectual Property Office, co-author

Research Experience

Online Incentive Mechanism for Live Resources Purchasing

Hefei, Anhui, China

LAB FOR INTELLIGENT NETWORKING AND KNOWLEDGE ENGINEERING, USTC

Oct. 2017 - Present

- Designing an online incentive mechanism of crowdsourcing based live resources purchase for time-sensitive tasks.

Privacy-Preserving Image Trading through Crowdsourcing

Hefei, Anhui, China

LAB FOR INTELLIGENT NETWORKING AND KNOWLEDGE ENGINEERING, USTC

Dec. 2016 - Oct. 2017

- Lead a five-member team.
- Proposed and implemented a novel ownership and privacy aware image trading system based on crowdsourcing.
- Designed a novel image evaluation and selection method based on CNN (Convolutional Neural Network) model.
- Minimized computation and communication overhead in both servers and clients sides.
- Evaluation and experiments show high quality of our selected datasets and high efficiency of our methods.
- Accepted by INFOCOM18 (first-student author, second author).

Optimized a 2-path Shortest Algorithm on CPU/GPU Heterogeneous Platform

Calgary, Alberta, Canada

MATHEMATICS DEPARTMENT, UNIVERSITY OF CALGARY

June. 2016 - Sept. 2016

- Project of International Exchange Program for Outstanding Undergraduates.
- Project of Mitacs Globalink Research Intern Program.
- Implemented and optimized the 2-D shortest path algorithm on CPU/GPU heterogeneous platform.

Optimized Distributed Applications in 2016 International Student Cluster Competition

Frankfurt, Hessen, Germany

ADVANCED COMPUTER SYSTEM ARCHITECTURE LABORATORY

Nov. 2015 - June. 2016

- Ranked 4th in the Final of 2016 International Student Cluster Competition, held by HPC Advisory Council.
- Optimized two classical scientific software Lammmps and Splotch on a ten-node cluster with 3000W power constraint.

Implemented a CPU of MIPS Based on FPGA

HARDWARE CENTER (USTC)

Hefei, Anhui, China

July, 2015

- A personal project.
- Implemented a five-stage pipeline MIPS CPU which had been verified on the FPGA.

Other Experience

Teaching Assistant for Computer Organization

Hefei, Anhui, China

UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA

Feb. 2016 - June, 2016

- Selected by competitive programming-based examination conducted by School of Computer Science and Technology.
- Conducts teaching assistant affairs including assignments, on-/off-campus guidance, laboratories and examinations.
- Received high comments on helpfulness and expertise from students.

Vice President of Technical Department of Student Union

Hefei, Anhui, China

UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA

Nov. 2013 - Oct. 2016

- Built up experience on student affairs, including peer-tutoring, curriculum feedback, representative of class hiring, coordination between students and teaching assistants and ice-breaking activities.
- Held the 'Linux Installation Competition' in the school.
- Hosted the 'Netgame Competition' in the school, leading a team of 25.

Vice President of Baidu Club

Hefei, Anhui, China

UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA

Nov. 2013 - Oct. 2016

- Delivered talks and speeches to introduce states-of-art technologies.
- Hosted a Java Programming contest to attract freshmen and seniors for Baidu Club.

Honors & Awards

ACADEMIC GRANT

- | | | |
|------|--|---------------|
| 2016 | International Exchange Program for Outstanding Undergraduates , China Scholarship Council | National |
| 2016 | Mitacs Globalink Research Intern Grant , Canada Mitacs | International |

PROJECT GRANT

- | | | |
|------|--|-------------|
| 2016 | International Contest for Innovation Grant , USTC & Huawei Technologies Company Limited | Univ. & Co. |
| 2014 | Innovation Project Grant , USTC-CHINESE National Center for Engineering Education | University |

ACADEMIC

- | | | |
|------|--|---------------|
| 2016 | 4th in Final , International Student Cluster Competition, held by HPC Advisory Council in Germany | International |
| 2015 | Outstanding , Stars of Baidu | University |
| 2014 | 2nd Award , Electromagnetic Paper Contest | University |
| 2014 | Outstanding , Volunteer Work 100 | University |

INNOVATIVE

- | | | |
|------|---|--------------|
| 2017 | Excellent Graduates , University of Science and Technology of China | University |
| 2017 | Outstanding Student Scholarship , University of Science and Technology of China | University |
| 2016 | Yangya Scholarship , University of Science and Technology of China | Organization |
| 2016 | Outstanding Student Scholarship , University of Science and Technology of China | University |
| 2015 | Outstanding Student Scholarship , University of Science and Technology of China | University |
| 2014 | Outstanding Freshman Scholarship , University of Science and Technology of China | University |

ORGANIZATION

- | | | |
|------|--|------------|
| 2015 | Excellent Student Cadre , University of Science and Technology of China | University |
|------|--|------------|

Skills

Program	C/C++, Python, TensorFlow, Verilog HDL, CUDA, Shell
Tool	Latex, Linux, Matlab, Qt, MySQL