

Yang Jiayi
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Educational Background

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|--------------------------|---|
| 09/2022 – 04/2023 | University of British Columbia
Position: Research Intern |
| 10/2020 – now | University of Electronic Science and Technology of China
<i>(Recommended postgraduate student)</i>
Position: Master's Degree
GPA 3.3/4.0 |
| 09/2017 - 06/2021 | Jiangxi University of Finance and Economics
Major: Software Engineering
GPA: 91/100, Ranking: 1/44
Degree: Bachelor's Degree(<i>Outstanding Graduation</i>) |

Research Interests

- Federated Learning, Trustworthy AI, Incentive Mechanism Design, Game Theory

English Level (IELTS)

- Total: 7.0 (Speaking:7.0 Listening:8.5 Reading:7.0 Writing:6.0)

Publications

- ***Matching-based Data Valuation for Generative Model***
Jiayi Yang, Wenlong Deng, Benlin Liu, Yangsibo Huang, Xiaoxiao Li
The IEEE Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, 2023
- ***Multi-dimensional Data Quick Query for Blockchain-based Federated Learning***
Jiayi Yang, Sheng Cao, Peng Xiangli, Xiong Li, Xiaosong Zhang
Published in International Conference on Wireless Algorithms, Systems, and Applications (WASA 2022, SCI)
- ***Portfolio-Based Incentive Mechanism Design for Cross-Device Federated Learning***
Jiayi Yang, Sheng Cao, Cuifang Zhao, Weina Niu, Li-Chuan Tsai
In submission
- ***GMValuator: Similarity-based Data Valuation for Generative Models.***
Jiayi Yang, Wenlong Deng, Benlin Liu, Yangsibo Huang, James Zou, Xiaoxiao Li
In submission

Patents

- ***Insurance Compensation Apparatus and Methods based on Hybrid Smart Contracts*** (CN202110835114.8)

- *An Incentive Mechanism Method for Decision-Making* (CN202110835181.X)

Scholarship

- 12/2020, China National Scholarship (*Top 0.2% Nationwide*)
- 11/2019, Enterprise Scholarship from Bank of Jiujiang
- 12/2020, Learning Model Scholarship
- 05/2020, Star of Self-improvement Scholarship
- 06/2021, Merit Student Scholarship
- 11/2019, Merit Student Scholarship

Honors

- 08/2020, National **Second Prize** in China Computer Federation National Conference on Services Computing Software Innovation Competition
- 08/2020, **Bronze Award** in Challenge Cup Competition Jiangxi Province
- 08/2020, **First Prize** in University Student Computer Works Competition of Jiangxi Province
- 08/2020, **Third Prize** in The 15th China Student Electronic Design Competition of Jiangxi Province
- 08/2020, **Bronze Award** in Challenge Cup Competition Jiangxi Province
- 12/2019, **Third Prize** in Jiangxi Province in Huachuang Cup Market Investigation and Analysis Competition (My responsibility is helping to train models in the group)
- 22/09/2019, **Second Prize** in Jiangxi Fujian Zone in iCAN International Contest of innovAtioN for the project of Smart Home and School Interaction Platform Based on WeChat
- 07/2019, **National Third Prize** in 2019 Pan-Pearl River Delta University Student Computer Works Competition for the project of Dexin Yingshou
- 07/2019-08/2019, **National Third Prize** in Chinese University Student Computer Design Competition for the project of Nongyao - O2O Rural Commercial Internet of Things Control Platform
- 06/2019, **First Prize(Special Project award)** in University Student Computer Works Competition of Jiangxi Province for the project of Dexin Yingshou
- 05/2019, **Third Prize** in National Final of Lanqiao Cup for the project of Smart Home Farm Control System Based on LoRa
- 05/2019, **First Prize** in National Selection Match of Lanqiao Cup for the project of Smart Home Farm Control System Based on LoRa
- 05/2019, Jiangxi Zone Final Science and Technology Invention Production Type B (Undergraduate Group) **Third Prize** in Challenge Cup National Undergraduate Curricular Academic Science and Technology Works Contest for the project of Bole - Shared Parking Positioning Navigation System
- 26/05/2018, **Third Prize** in University Student Computer Works Competition of Jiangxi Province for the project of Ultrasonic Inductive Electronic Instrument
- 05/2020, National Subject in National University Student Innovation and Entrepreneurship Training Programme for the project of Smart Home Farm Rural Commercial Platform (National Level, Finish with Excellent Level)
- 04/2021, National Subject in National University Student Innovation and Entrepreneurship Training Programme for the project of Smart Home Farm Rural

Commercial Platform (School Level, Finish with Good Level)

- 23/05/2019, Software Copyright for the app of Smart Home Farm
- 05/02/2020, Software Copyright for Intelligent Identification System V1.0 for Abnormal Behaviors of Classroom Students Based on Deep Learning
- 09/2020, Third Prize in Finance and economics Universities Innovation Competition