JIANG WENSI

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📍 HKUST, Clear Water Bay, Kowloon, Hong Kong 📞(852)-59707439

EDUCATION

The Hong Kong University of Science and Technology, Hong Kong *September 2021 - June 2022(expected)*
Research Assistant in DSA

Central South University, Changsha, China *September 2017 - June 2021*
BEng in Communication Engineering

PROJECTS

Blockchain-based Data Market
- We propose a blockchain-based secure data trading marketplace for machine learning applications.
- Enable model security against curious data owners.
- Enable data security against curious model and data owners

Staff Face-swiping Attendance System
- Use Baidu AI open platform for face comparison and database functions
- Use the OpenCV module to call the camera device to provide the input of the video stream
- Monitor and recognize faces.

RESEARCH EXPERIENCE

Privacy preserving in federal learning, HKUST *May 2021 - recently*
Research Assistant
- Ensure the security of AI models and data
- Improve the ability of AI systems to resist attacks on AI computing platforms
- Resilience to malicious data owners who provide faulty results to poison model training

HKU/CS 2020 Summer Research Internship Programme, HKU *July 2020 -August 2020*
Research Assistant
- Propose a manageable and auditable access control framework for Decentralized Online Social Networks
- Use blockchain technology for the definition of privacy policies

TECHNICAL SKILLS

Programming:	Solidity, Python, Java, C++
Software & Tools:	Matlab, Multisim, SQL Server, Visual Studio, Eclipse

AWARD

- Post Graduates Scholarship,HKUST,2021.
- Internship Scholarship, Hong Kong University, 2020.
- Third-Class Scholarship (top 15%), Central South University, 2019.
- First-Class Scholarship (top 4%), Central South University, 2018.
- Second class scholarship of Chen Guoda education fund (top 4%), Central South University,2018.

PUBLICATIONS

- Jiacheng Liang, **Wensi Jiang**, and Songze Li. Omnilytics: A blockchain-based secure data market for decentralized machine learning. FL-ICML, 2021.
- Wentai Lei, Mengdi Xu, Feifei Hou, **Wensi Jiang**, Chiyu Wang, Ye Zhao, Tiankun Xu, Yan Li, Yumei Zhao, and Wenjun Li. Calibration venus: An interactive camera calibration method based on search algorithm and pose decomposition.Electronics, 9(12):2170, 2020.