

# Qishuang Fu | Curriculum Vitae

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Guangzhou, China



## EDUCATION

### Sun Yat-sen University

Sep 2021 - Jun 2024

Software engineering Master School of Computer Science

Guangzhou

- **GPA:** 90.1/100 **Ranking:** 1 /9
- **Major courses:** blockchain principle and technology (97), advanced database technology (93), data science and engineering (93), advanced artificial intelligence (92), advanced network and information security technology (91), etc.
- **Honorary Award:** First Class Scholarship (2021, 2022)

### Dalian University of Technology

Sep 2017 - Jun 2021

Automation Bachelor Department of Electronic Information and Electrical Engineering

Dalian

- **GPA:** 87.5/100 **Ranking:** 4 /31
- **Major courses:** probability and statistics (94), basic operations research (92), introduction to artificial intelligence (95), computer principles (90), algorithm design and analysis (93), etc
- **Honorary awards:** National Scholarship, NOK Scholarship, Liaoning Province Outstanding Graduates, Dalian University of Technology Individual Scholarship 11 times for three consecutive years, etc.

## RESEARCH INTEREST

My research interests lie in the mining and analysis of transaction data on the blockchain, including the following topics:

- Understand the traits of money laundering transactions and accounts on Ethereum ;
- Assessing the risk of accounts on Ethereum;
- Identifying and matching blockchain cross-chain transactions.

## RESEARCH EXPERIENCE

### Analysis of the characteristics of money laundering accounts in ethereum

Aug 2022 - Nov 2022

- Conducted an in-depth study on Ethereum money laundering networks through the lens of a representative security event on Upbit Exchange to explore whether money laundering on Ethereum has traditional traits.;
- Constructed a money laundering network on Ethereum by crawling the transaction records of Upbit Hack;
- By leveraging network analysis, characterized the money laundering network on Ethereum and summarize the findings of money laundering networks on Ethereum.

### Ethereum Account Risk Assessment Framework

Jan 2021 - Sep 2022

- Put forward a general concept of suspiciousness metric of transactions to assist various illicit account detection tasks ;
- Implemented a novel and general account risk rating framework as well as demonstrated its effectiveness and flexibility via experiments on a real-world Ethereum transaction dataset;
- Obtained valuable insights into the Ethereum ecosystem by analyzing the rating results as well as a visualizing risky transaction chain.

## PUBLICATION AND PATENT

- **A General Framework for Account Risk Rating on Ethereum: Towards Safer Blockchain Technology**

*IEEE Transactions on Computational Social Systems (TCSS)*

Qishuang Fu, Dan Lin, Yiyue Cao, Jiajing Wu, Zibin Zheng

- **Does Money Laundering on Ethereum Have Traditional Traits?**

*IEEE ISCAS2023 IEEE International Symposium on Circuits and Systems (ISCAS '23)*

Qishuang Fu, Dan Lin, Yiyue Cao, Jiajing Wu

- **Account data processing methods, devices, computer equipment, and storage media**

*Chinese Patent (Patent No.: CN 202211081994.5)*

Jiajing Wu, Qishuang Fu, Hao Lin, Chuanxue Lin, Haixu Guo, Wen Wu

## COMPETITION EXPERIENCE

### XTracer: A tool to track blockchain transactions

Sep 2022 - Feb 2023

Second Prize in CCF & ATEC the First College Students' Blockchain Security Privacy Technology and Innovative Application Competition

- Analyzed competitive products to find users' pain points and analyzed and designed five competitive product functions;
- Tested tools and gave feedback on improvement suggestions to developers;
- Write design reports and make presentation slides.

### Study on the Development Situations and Prospects of BiliBili.com

Anr 2020 - .Jul 2020

## Second prize of Zhangda Cup Market Research and Analysis Competition

- Gathered nearly 1000 effective e-questionnaires about university students' usage and evaluation of Bilibili.com, the consumption on the websites, the participation in relevant activities and recommendations for the future ;
- Grouped participants into four categories based on the frequency of usage and amount of consumption; used SPSS to analyze the influence factors ;
- Utilized PEST and SWOT framework to analyze the internal and external conditions of Bilibili.com; predicted its future prospects and made suggestions such as enhancing collaboration with the mass media to increase customer loyalty.

## HONORS AND AWARDS

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National scholarships (top 1%)	2019
Second Prize in CCF & ATEC the First College Students' Blockchain Security Privacy Technology and Innovative Application Competition (top 5%)	2023
Outstanding undergraduate graduates from Liaoning Province (top 1%)	2021
Excellent undergraduate thesis of Dalian University of Technology (top 2%)	2021
NOK First-class Scholarship (top 10%)	2020
Second prize of Zhangda Cup Market Research and Analysis Competition	2020
Sun Yat-sen University First Class Scholarship (Top 20%)	2021-2022
Study, social work, social practice, spiritual civilization, cultural and sports activities scholarship of DUT (top 15%)	2018-2021

## VOLUNTARY & SERVICES

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Deputy Captain of Automation Team - Outstanding leader in the department	Sep 2019 - Jun 2021
Community service assistant in Dalian - Outstanding volunteer in school	Mar 2017 - Jan 2019
Volunteer teacher in Qinghai province - Dalian Advanced Volunteer Team	Jul 2018 - Aug 2018