QISHUANG FU

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EDUCATION

Sun Yat-sen University   **Guangzhou, China**

Master's Degree in Software Enginering   GPA: 4.0/5.0   Rank: 1/9   09/2021-06/2024 (Expected)

Core 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)

Scholarships: 2021-2023 First Class Scholarship at Sun Yat-sen University (Top 20%)

Dalian University of Technology   **Dalian, China**

Bachelor's Degree in Automation   GPA: 3.75/5.0   Rank: 4/31   09/2017-06/2021

Core Courses: Probability and Statistics (94); Basic Operations Research (92); Introduction to Artificial Intelligence (95); Computer Principles (90); Algorithm Design and Analysis (93)

Scholarships: 2019 National Postgraduate Scholarship (Top 1%); 2020 NOK First-class Scholarship (Top 10%); 2020 Study scholarship (Top 15%)

PUBLICATIONS

[1] **Qishuang Fu**, Dan Lin, Jiajing Wu, and Zibin Zheng, "*A General Framework for Account Risk Rating on Ethereum: Toward Safer Blockchain Technology*". *IEEE Transactions on Computational Social Systems (TCSS)*. Accepted.

[2] **Qishuang Fu**, Dan Lin, Yiyue Cao, Jiajing Wu, "*Does Money Laundering on Ethereum Have Traditional Traits?*". *IEEE International Symposium on Circuits and Systems (ISCAS)*. Accepted.

RESEARCH EXPERIENCE

Account Risk Rating Framework on Ethereum [1]   **01/2021-08/2022**

- Proposed a general framework for account risk rating on Ethereum including a devisable suspiciousness metric
- Analyzed and visualized the metrics of normal and abnormal accounts as well as a chain of suspicious transactions

Analysis of Traits of Money Laundering Accounts On Ethereum [2]   **08/2022-11/2022**

- Conducted an analysis on money laundering through the lens of a representative security event on Upbit Exchange
- Summarized traits of money laundering accounts on Ethereum to lay the groundwork for money laundering detection

Cross-chain Transaction Pairs Trace   **03/2023-Present**

- Detected deposit transactions on source chain by leveraging a machine learning method based input data of transactions

COMPETITION EXPERIENCE

XTracer: A tool to track transactions on blockchain   **09/2022-02/2023**

- Analyzed competitive products and designed five competitive functions of the tool;
- Tested the tool and gave feedback on improvement suggestions to developers;
- Wrote reports and made presentation slides.

HONORS & AWARDS

- Second Prize in CCF & ATEC the First Blockchain Security Technology and Application Competition (Top 5%)   2023
- Outstanding Undergraduate in Liaoning Province (Top 1%)   2021
- Excellent Undergraduate Thesis at Dalian University of Technology (Top 2%)   2021
- Second Prize in Zhangda Cup Market Research and Analysis Competition   2020

RESEARCH INTERESTS

My academic interests center around guarding the security of blockchain, including the following topics:

- Understanding and analyzing illicit activities on Ethereum;
- Detecting illicit activities on Ethereum;
- Tracing cross-chain transaction pairs on different blockchain platform.

SKILLS

- Programming: Python, LaTex, Git
- Language: Mandarin - Native, English - Fluent