

HOU-WAN LONG

Room 232A, Mei Yun Tang, The Chinese University of Hong Kong, Shatin, Hong Kong

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EDUCATION

The Chinese University of Hong Kong—CGPA:3.564; MGPA:3.7

Hong Kong

- B.Sc. in Risk Management Science (expected May 2026)

September 2022 - Present

- Core Course Modules: Statistics, Finance and Computer Science

RESEARCH INTEREST

Computational Social Science, AI for Finance, Decentralized Mechanism

PUBLICATIONS

Journals

- X. Zhao, **H.-W. Long**, Y.-W. Si, (2024), Mitigating Blockchain extractable value (BEV) threats by Distributed Transaction Sequencing in Blockchains, Journal of Digital Communications and Networks (**JCR Q1, Minor Revision**)
- J. Sun, **H.-W. Long**, Z. Fang, A El Saddik, W. Cai, (2024), Contract Design for SCaaS with Multi-dimensional Private Information, IEEE Transactions on Computational Social Systems (**JCR Q1**)
- X. Zhao, G. Zhang, **H.-W. Long**, Y.-W. Si, (2024), Verkle Tree-Based Dynamic Transaction Storage Strategies for Minimizing the Volatility of Block Incentives, Decision Support Systems (**JCR Q1**)

Conference Proceedings

- **H.-W. Long**, N.-M. Wong, W. Cai (2025), Bridging Culture and Finance: A Multimodal Analysis of Memecoins in the Web3 Ecosystem, ACM International World Wide Web Conference (**Short Paper Track, Accepted**)
- **H.-W. Long**, Y.-W. Si, (2024), Token Fungibility Duality: Technical and Graphical Analysis on 404 Standards, IEEE International Conference on Blockchain (**Acceptance Rate=18.89%**)
- **H.-W. Long**, X. Zhao, Y.-W. Si, (2023), Dynamic Mining Interval to Improve Blockchain Throughput, IEEE International Conference on Big Data (**Acceptance Rate=17.4%**)

RESEARCH EXPERIENCE

University of Washington Decentralized Computing Laboratory

Washington State

Research Assistant (remote)

September 2023 - December 2023

- Proposed the Smart Contract-as-a-Service (SCaaS) paradigm to enhance the reusability and composability of smart contracts, addressing redundancy, development costs, and security risks.
- Developed a reputation filter using on-chain transaction data and formulated multi-dimensional contracts to incentivize developers, optimizing foundation utility.

Data Analytics and Collaborative Computing Laboratory, University of Macau

Macao

Research Assistant

March 2023 - May 2024

- Assessed the accuracy of various time series similarity functions for source dataset selection in transfer learning.
- Introduced a method for measuring domain discrepancy using Gramian Angular Field (GAF), improving similarity function performance.
- Designed a Dynamic Mining Interval strategy to address the low-throughput issue, conducting blockchain propagation network simulations for robustness.

HONOURS AND AWARDS

- **Reaching Out Award** by New Asia College, The Chinese University of Hong Kong

May 2023

- **Student Travel Award** by Institute of Electrical and Electronics Engineers (IEEE)

November 2023

- **Research Studentship** by Department of Statistics, The Chinese University of Hong Kong

December 2023

- **Dean's List** by Department of Statistics, The Chinese University of Hong Kong

July 2024

SKILLS

Skills: Pytorch, Pandas, Selenium

Languages: English (fluent), Cantonese (native), Mandarin (native)