

# Siyuan Jin

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## EDUCATION

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### Hong Kong University of Science and Technology

*PhD of Information Systems*

Aug 2024 - Now

- Supervisor: Prof. Kar Yan Tam
- Advisors: Allen H. Huang, Kohei Kawaguchi, Marc Dordal Carreras, Dongwon Lee, Keongtae Kim, Qiming Shao.
- Topics: Blockchain, Digital Platform, Information Systems Management

### Hong Kong University of Science and Technology

*MPhil of Information Systems, GPA: 3.7/4.3*

Aug 2022 - Aug 2024

- Supervisor: Prof. Kar Yan Tam
- Courses: Problem Formulation (Arun Rai), Econometrics (Ohchan Kwon, Liangfei Qiu), Experiment (Sussanna Ho), Survey (Elena Karahanna), Design Science (Andrew Burton-Jones)

### South China University of Technology (2023 ARWU Ranking 100-150)

*Bachelor of Economics (Major: Finance), GPA: 3.83/4.00 (Rank: 1/33)*

Sep 2017 - Jul 2021

- Award/Grant: 2019-2020 China National Scholarship (Top 0.1 - 0.2%), Outstanding Graduates

## INDUSTRIAL EXPERIENCE

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### • HSBC Hong Kong

*Research Consultant*

Nov 2022 - Now

Hong Kong

### • HSBC Laboratory - Ventures, Innovation & Partnerships

*Full Stack Engineer: CBDC Research*

Jul 2021 - Aug 2022

Guangzhou

- Award/Grant: 2021 HSBC Top Performer | 2021 HSBC Role Model (Top 5%)

### • HSBC IT Architecture

*Trainee: CBDC Research & Development*

Jul 2020 - Jul 2021

Guangzhou

- Award/Grant: Global CBDC Challenge Finalist

## JOURNAL PUBLICATIONS (First-Author Paper) - Chronological Order

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- [1] **S. Jin**, Y. Xia, B Xu (2024). “Scalability meets Regulation: A UTXO-Based Sharding Approach with Zero-Knowledge Proof KYC for Regulated Digital Currencies”. *Cluster Computing*, 1-14.
- [2] **S. Jin**, and Y. Xia (2022). “CEV Framework: A Central Bank Digital Currency Evaluation and Verification Framework”. *IEEE Access*, 10, 63698-63714.

## WORKING PAPERS

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- [1] **S. Jin**, A. Huang, Z. Li, K. Tam. “Do Users of Blockchain IT Infrastructure Value Environmental Sustainability? Evidence from Environmental Impact Disclosures”. [\[Working Paper\]](#)
  - MIS Quarterly Virtual Author Development Workshop (2024).
- [2] **S. Jin**, D. Lee, K. Kim, and K. Tam. “When K-Pop Meets Blockchain: Consumer Engagement Through Voting in DAO”.
  - ICIS (2024), CIST (2024)
- [3] **S. Jin**, Y. Xia, K. Tam. “Algorithmic Reviewer, Code Productivity, and Technical Debt: Evidence from a Large-Scale Field Quasi-Experiment”. Working paper.
  - CIST (2024).
- [4] **S. Jin**, Y. Cai, L. Qiu, K. Tam. “Operational Transparency in the Blockchain Era: Examining the Impact of Different Types and Levels on User Engagement”. Working Paper.
  - ICIS (2024)
- [5] M. Dordal i Carreras., K. Kawaguchi, **S. Jin**, H. Guo. “Consumer Adoption and Perceptions of rCBDC: Insights from the Hypothetical e-HKD Pilot”. [\[Working Paper\]](#)
- [6] M. Dordal i Carreras, K. Kawaguchi, **S. Jin**. “Informational Experiment on Consumer’s Perception of Central Bank Digital Currency as Liquidity Assets”. Working paper.
  - International Conference on Central Bank Digital Currencies and Payment Systems (2024).

## CONFERENCE PUBLICATIONS (First Author) - Chronological Order

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- [1] **S. Jin**, Z. Li, B. Chen, B. Zhu, and Y. Xia. "Software Code Quality Measurement: Implications from Metric Distributions". IEEE International Conference on Software Quality, Reliability, and Security, Chiang Mai, Thailand, (**QRS 2023**).  
*Short Paper with Oral Presentation, Acceptance Rate: 23.47%*
- [2] **S. Jin**, B. Xu, P. Intallura, and Y. Xia. "A UTXO-based Sharding Method for Stablecoin". IEEE International Conference on Blockchain Computing and Applications, San Antonio, USA, (**BCCA 2022**). *Short Paper with Oral Presentation, Acceptance Rate: <30%*.

## Workshop Presentation - Chronological Order

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- [1] **[Presenter]** Conference on Information Systems and Technology *Seattle, Oct 2024*
- [2] **[Coauthor]** PolyU Research Student Conference *PolyU, Aug 2024*
- [3] **[Presenter]** MIS Quarterly Virtual Author Development Workshop *Online, Jun 2024*
- [4] **[Coauthor]** CNAIS-UNNC Paper Development Workshop *Ningbo, Jun 2024*
- [5] **[Presenter]** HKUST Business School PhD Student Conference *Hong Kong, May 2024*
- [6] **[Coauthor]** International Conference on Central Bank Digital Currencies and Payment Systems *Hong Kong, Apr 2024*

## POLICY PUBLICATIONS - Chronological Order

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- [1] Joint with HKUST SBM and HSBC Holdings plc (2023). “e-HKD Pilot Programme”. Link to the [summary](#) cited by the [Hong Kong Monetary Authority](#).
- [2] Y. Xia, **S. Jin**, B. Qu, Y. Liu, Y. Zhen. Joint with HSBC Bank (Singapore) Limited (2021). “Global CBDC Challenge Report”. The report from [Monetary Authority of Singapore](#).
- [3] **S. Jin**, A. Huang, M. Dordal i Carreras and HSBC HK (2024). “Tokenized Deposit”. Working whitepaper.
- [4] **S. Jin**, A. Huang, K. Tam, Y. Liang (2024). “Unified Ledger”. Working whitepaper.
- [5] **S. Jin**, A. Huang, K. Tam, D. Lou (2024). “Tokenized Form of Money”. Working whitepaper.

## INTERNATIONAL PATENT

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- [1] B. Zhu, Y. Xia, Z. Li, **S. Jin**. (2024). "Network Analysis using optical quantum computing". International Bureau, World Intellectual Property Organization. **Publication No. WO2024/007565 A1**.
- [2] **S. Jin**, Y. Xia. (2024). "Method for implementing network consensus algorithm". International Bureau, World Intellectual Property Organization. **Publication No. WO2024/007483 A1**.
- [3] **S. Jin**, Y. Xia. (2024). "Transaction Security for Multi-tier Transaction Networks". International Bureau, World Intellectual Property Organization. **Publication No. WO2024/007527 A1**.
- [4] **S. Jin**, Y. Xia. (2024). "Blockchain transaction sharding for improved transaction throughput". International Bureau, World Intellectual Property Organization. **Publication No. WO2024/011707 A1**.

## RESEARCH PROJECTS & FUNDING APPLICATIONS

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- **Main Proposal Contributor - Research Impact Fund, \$10m**  
Empowering Hong Kong Finance with A Quantum Algorithm Platform  
*Coordinator: Prof. Yingying Li.* *Dec 2023 - Now*
- **Proposal Contributor - Research Grants Council Fund, \$8m**  
RegTech - Design of CBDC and Digital Assets in Hong Kong  
*Coordinator: Prof. Kar Yan Tam.* *Jul 2023 - Now*

## AWARD / HONOR

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- **UGC/HKUST Hong Kong PhD Fellowship** *Sep 2024 - July 2028*
- **HKUST PhD Postgraduate Studentship** *Nov 2022 - Sep 2024*
- **HKUST Fintechstic NFT & Metaverse Competition Mentor (Total 10 Mentors)** *Nov 2022*
- **Monetary Authority of Singapore [Global CBDC Challenge Finalist](#) (Top 5%)** *Nov 2021*
- **SCUT University-level Excellent Graduation Thesis (Top 1%)** *2021*
- **SCUT China National Scholarship (Top 0.1%-0.2%)** *2020*
- **SCUT First-Class Scholarship (Top 1%) **Twice**** *2018 & 2019*

## TEACHING EXPERIENCE

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- **Teaching Assistant** “Coding for Business”, ISOM 2020, HKUST *Feb - Apr 2024*
- **Lab Instructor** “Coding for Business”, ISOM 2020 Lab, HKUST *Sep - Oct 2023*
- **Teaching Assistant** “Coding for Business”, ISOM 2020, HKUST *Feb - Apr 2023*
- **Teaching Assistant** “Blockchain Introduction”, SCUT *Feb - May 2021*

## ACADEMIC SERVICE / OPEN SOURCE

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- **Ad Hoc Reviewer** Workshop on Information Technologies and Systems (WITS 2024), International Conference on Information Systems (ICIS 2023, 2024), Pacific Asia Conference on Information Systems (PACIS 2023), Quantum Information Processing (QIP 2023)
- **Organizer** IS Paper Reading Series [\[Details\]](#) *Feb 2024 - now*
- **Mentor** Data Driven Modeling MSc Program Research Yearly Project *Oct 2022 - Jul 2024*
  - 7 M.Sc. students in total: 5 continue to conduct research work worldwide.
  - Y. Liu received the DDM Best Presentation Award in 2023.
- **Open-Source Project Initiator** [Quantum Finance Literature](#), [CBDC Literature](#)

## INVITED TALKS - Chronological Order

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- [1] "Introduction to Financial Technology", *South China University of Technology*, Guangzhou, China. *2023*
- [2] "A Central Bank Digital Currency Evaluation and Verification Framework", *Europe Innovation Community of Practice*, HSBC, Europe. *2022*

## LANGUAGE

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- Mandarin (Native)
- English (Proficient, IELTSs 7.5)
- Cantonese (Beginner)