

# ANDES Y. L. KEI

Department of Information Engineering, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong

## EDUCATION

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### The Chinese University of Hong Kong

*Ph.D. in Information Engineering*

Hong Kong

Aug 2022 - Present

- Research Interest: Secure Multi-Party Computation and Blockchain
- Advisor: Professor Sherman S. M. Chow
- Hong Kong PhD Fellowship Scheme Awardee (2022/23)
  - 300 fellowships awarded to top and well-rounded doctoral candidates globally, across all universities

### The Chinese University of Hong Kong

*B.Eng. in Financial Technology*

Hong Kong

Sep 2018 - Jul 2022

- First Class Honours (CGPA: 3.827/4.000, Major GPA: 3.941/4.000)
- Engineering Leadership, Innovation, Technology and Entrepreneurship (ELITE) Stream
- Minors: Computer Science, Information Engineering, Web and Cloud Computing

## PUBLICATIONS

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### Conference Paper

- [C2] **Andes Y. L. Kei**, Lucien K. L. Ng, Jack P. K. Ma, Sherman S. M. Chow. “Sort, Sweep, Mirror: Batch Private Interval Lookup with Logarithmic Cost.” *IEEE S&P 2026* (To Appear).
- [C1] **Andes Y. L. Kei**, Sherman S. M. Chow. “SHAFT: Secure, Handy, Accurate, and Fast Transformer Inference.” *NDSS 2025* (**Distinguished Artifact Award**).

## PROFESSIONAL ACTIVITIES

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### External Reviewer

- 2026: AsiaCCS
- 2025: ARES, AsiaCCS, Asiacrypt, CODASPY, DSC, ESORICS, Indocrypt, NDSS, NSS, PKC, S&P, TDSC
- 2024: ARES, Asiacrypt, CANS, ICICS, ICISC, RAID, TDSC, Usenix Security
- 2023: IJIS

## TEACHING

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### Teaching Assistant

- IEMS 5718 Web Programming and Internet Security (24-25 Term 2)
- IEMS 5725 Blockchain and Applications (24-25 Term 1)
- IEMS 5710 Cryptography, Information Security and Privacy (23-24 Term 1, 23-24 Term 2, 25-26 Term 1)
- IERG 2080 Introduction to Systems Programming (22-23 Term 2, UG)
- DSME 6788 Cyber Security (22-23 Term 1)
- ENGG 2440 Discrete Mathematics for Engineers (22-23 Term 1, UG)

## WORK HISTORY

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**Department of Information Engineering, the Chinese University of Hong Kong**

Hong Kong

*Research Assistant*

May 2022 - Jul 2022

- Topic: Privacy-Enhancing Techniques for Authentication
- Advisor: Professor Sze Yiu Chau
- Performed literature review on WPA2-Enterprise security and privacy-enhancing techniques for authentication
- Designed a practical, privacy-preserving authentication method for WPA2-Enterprise Wi-Fi

**Faculty of Engineering, the Chinese University of Hong Kong**

Hong Kong

*Summer Research Intern*

Jun 2021 - Aug 2021

- Topic: Fast and Scalable Payment using Cryptocurrencies
- Advisor: Professor Sherman S. M. Chow
- Performed literature review on off-chain (layer-2) scalability solutions on blockchain, including their techniques, advantages, and limitations
- Constructed a new off-chain protocol for private and scalable blockchain micropayment with practical collateral

**Faculty of Engineering, the Chinese University of Hong Kong**

Hong Kong

*Summer Research Intern*

Jun 2020 - Aug 2020

- Topic: Stochastic Optimization for Reinforcement Learning
- Advisor: Professor Hoi To Wai
- Developed a simulation environment for testing reinforcement learning algorithms
- Implemented 4 reinforcement learning algorithms and evaluated their empirical performance
- Reviewed a learning control problem from academic paper and solved it using implemented algorithms