Kai-Min Chung

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Current Position

Distinguished Research Fellow Aug. 2024 – Present
Institute of Information Science, Academia Sinica, Taiwan

Deputy Director Sep. 2024 – Present
Institute of Information Science, Academia Sinica, Taiwan

Previous Position

Research Fellow Feb. 2020 – Aug. 2024
Institute of Information Science, Academia Sinica, Taiwan

Associate Research Fellow Mar. 2015 – Feb. 2020
Institute of Information Science, Academia Sinica, Taiwan

Assistant Research Fellow Sep. 2013 – Mar. 2015
Institute of Information Science, Academia Sinica, Taiwan

Postdoctoral Research Associate Aug. 2010 – Aug. 2013
Cornell University, Ithaca NY, USA

- Advisor: Rafael Pass
- *Simons Postdoctoral Fellowship (Aug. 2010 – Aug. 2012)*

Education

Harvard University, Cambridge MA, USA
Ph.D. in Computer Science Sep. 2005 – Mar. 2011

- Advisor: Salil P. Vadhan
- Thesis: *Efficient Parallel Repetition Theorems with Applications to Security Amplification*

National Taiwan University, Taipei, Taiwan
Bachelor of Science in Engineering Sep. 1999 – Jun. 2003

- Major: Computer Science & Information Engineering; Minor: Mathematics

Research Interests

Quantum Cryptography, Quantum Complexity Theory, and Quantum Program Verification

Honors and Awards

NSTC Outstanding Research Award 2023

PLDI 2023 Distinguished Paper Award 2023
for paper "An Automata-based Framework for Verification and Bug Hunting in Quantum Circuits" (with Yu-Fang Chen, Ondřej Lengál, Jyun-Ao Lin, Wei-Lun Tsai, and Di-De Yen)

MOST Outstanding Research Award 2021

Academia Sinica Investigator Award 2021
associated with a five-year funding for research on "Theoretical Exploration in Quantum Cryptography"

Academia Sinica Research Award for Junior Research Investigators 2020

MOST Ta-You Wu Memorial Award 2018

FAOS Young Scholar Creative Research Award 2017

Academia Sinica Career Development Award 2016
associated with a five-year funding for research on "Crypto for Modern Cloud Architecture and Post-quantum Crypto against Quantum Side-Info"

SYNERGISTIC ACTIVITIES

Steering Committee

- International Symposium on Algorithms and Computation (ISAAC), Advisory Committee Jan, 2026 - present
- Annual International Conference on The Theory and Application of Cryptology and Information Security (ASIACRYPT) Dec, 2023 - present
- Conference on the Theory of Quantum Computation, Communication and Cryptography (TQC) Nov, 2023 - present
- International Conference on Quantum Cryptography (QCrypt) Sep, 2021 - present

Program Chair

- 30th Annual International Conference on the Theory and Applications of Cryptology and Information Security (Asiacrypt 2024)
- 4th Information-Theoretic Cryptography conference (ITC 2023)

Program Committee

- General Theory
  STOC '22, **FOCS** '22
- Cryptography
  CRYPTO '26, '25, '23, '19, '13, **EUROCRYPT** '26, '21, '19, **ASIACRYPT** '23 (Area Chair), '21, '17, '15, '14, **TCC** '26, '25, '20, '19, '17, '16, '15, '14, **PKC** '20, '18, **ITC** '22, '21, '20, **TQC** '22
- Quantum
  QIP '23, **QCrypt** '18
- Complexity
  CCC '17
- Algorithm
  ISAAC '18, '15

General Chair

- 15th Real World Crypto Symposium (RWC 2026)
- 16th International Conference on Post-Quantum Cryptography(PQC 2025)
- 25th Workshop on Elliptic Curve Cryptography(ECC 2024)
- 21st IACR Theory of Cryptography Conference (TCC 2023)
- 28th Annual International Conference on The Theory and Application of Cryptology and Information Security (Asiacrypt 2022)
- 12th International Conference on Quantum Cryptography (QCrypt 2022)
- 19th International Conference on the Theory and Practice of Public-Key Cryptography (PKC 2016)

Conference Chair

- 36th International Symposium on Algorithms and Computation (ISAAC 2025)

Organizing Committee

- 36th International Symposium on Algorithms and Computation (ISAAC 2025)
- 27th Conference on Quantum Information Processing (QIP 2024)
- 16th Asian Quantum Information Science Conference (AQIS 2016)

Journal Editors

- IACR Communications in Cryptology (CiC Area Editor) Jan. 2024 - Dec. 2025
- ACM Computing Surveys (CSUR Associate Editor) Nov. 2021 - Nov. 2024
- ACM Transactions on Computation Theory (ToCT Associate Editor) Jan. 2021 - present
- Journal of Information Science and Engineering (JISE Associate Editor) Jan. 2020 - present

Association Director

- Taiwan Association of Quantum Computation and Information Technology Nov. 2020 - present
- Algorithm and Computation Theory Association (ACTA) Feb. 2020 - Dec. 2021

International Advisory Committee

- One-month Workshop on Quantum Information and String Theory, Yukawa Institute for Theoretical Physics (YITP), Kyoto University May–June, 2027

Scientific Committee

- Advances in Quantum Cryptography, Institut Henri Poincaré (IHP), Paris Sep to Dec, 2027

GRANTS

Zero-Knowledge Proofs in the Quantum World 2026-2029

Funded by Ministry of Science and Technology, Taiwan.
(No: 115-2221-E-001-002-MY3)

Interdisciplinary Research On Quantum CS: Cryptography, Program Verification, and Their Interplay 2023-2027
Funded by Air Force Office of Science Research (AFOSR), USA.
PI: Kai-Min Chung and Yu-Fang Chen

Theoretical Development in Quantum Computer Science 2022-2027
Funded by National Science and Technology Council, Taiwan.
PI: Kai-Min Chung, Shih-Han Hung, Han-Hsuan Lin, Jyun-Ao Lin, Bo-Yin Yang, and Yu-Fang Chen
(No: 111-2119-M-001-004, 112-2119-M-001-006, 113-2119-M-001-009, 114-2119-M-001-002, 115-2119-M-001-002)

Academia Sinica 2021 Investigator Award 2021-2025
Funded by Academia Sinica, Taiwan.

Cryptography, a Challenge in the Age of Quantum Computing 2021-2024
Funded by Academia Sinica, Taiwan.
PI: Bo-Yin Yang, Kai-Min Chung, and Bow-Yaw Wang

Secure Multiparty Quantum Computation 2020-2022
Funded by Air Force Office of Science Research (AFOSR), USA.

Theoretical Challenges and Opportunities in Post-Quantum Cryptography 2020-2023
Funded by Ministry of Science and Technology, Taiwan.
(No: 109-2223-E-001-001-MY3)

Silicon-based quantum devices, quantum computing and quantum communication
Sub-project 4: Quantum communication and cryptography 2018-2022
Funded by Ministry of Science and Technology, Taiwan.
(No: 107-2627-E-002-002)

Crypto for Modern Cloud Architecture 2017-2020
Funded by Ministry of Science and Technology, Taiwan.
(No: 106-2628-E-001-002-MY3)

The Young Scholars' Creativity Award 2017-2019
Funded by Foundation for the Advancement of Outstanding Scholarship, Taiwan.

Academia Sinica 2016 Career Development Award 2016-2020
Funded by Academia Sinica, Taiwan.

Li Foundation Heritage Prize for "Excellence in Creativity" 2014-2015
Funded by The Li Foundation, Inc., USA.

Advancing New Age Cryptography—New Assumptions, Tasks, and Challenges 2014-2017
Funded by Ministry of Science and Technology, Taiwan.
(No: 103-2221-E-001-022-MY3)

CONFERENCE PUBLICATIONS

[80] *Complexity Theory for Quantum Promise Problems*
Nai-Hui Chia, Kai-Min Chung, Tzu-Hsiang Huang, Jhih-Wei Shih
Contributed talk at The 21st Conference on the Theory of Quantum Computation, Communication and Cryptography (**TQC**), 2026.

[79] *Constant-Rate Certified Deletion*
Kai-Min Chung, Tzu-Hsiang Huang, Wei-Hsiang Hung, Shota Yamada
In Proceedings of The 46th International Cryptology Conference (**CRYPTO**), 2026.

[78] *The Black-Box Simulation Barrier Persists in a Fully Quantum World*
Nai-Hui Chia, Kai-Min Chung, Xiao Liang, Jiahui Liu
In Proceedings of The 45th International Conference on the Theory and Applications of Cryptographic Techniques (**EUROCRYPT**), 2026.
In Proceedings of The 21st Conference on the Theory of Quantum Computation, Communication and Cryptography (**TQC**), 2026.

[77] *Tight Quantum Time-Space Tradeoffs for Permutation Inversion*
Akshima, Tyler Besselman, Kai-Min Chung, Siyao Guo, Tzu-Yi Yang
In Proceedings of The 45th International Conference on the Theory and Applications of Cryptographic Techniques (**EUROCRYPT**), 2026.

[76] *Equivalence Checking of Quantum Circuits via Path-Sum and Weighted Model Counting*
Wei-Jia Huang, Jingyi Mei, Alfons Laarman, Yu-Fang Chen, Christophe Chareton, Kai-Min Chung and Min-Hsiu Hsieh
In Proceedings of The 32nd International Conference on Tools and Algorithms for the Construction and Analysis of Systems (**TACAS**), 2026.

[75] *AutoQ 2.0: From Verification of Quantum Circuits to Verification of Quantum Programs*
Yu-Fang Chen, Kai-Min Chung, Min-Hsiu Hsieh, Wei-Jia Huang, Ondřej Lengál, Jyun-Ao Lin, Wei-Lun Tsai
In Proceedings of The 31st International Conference on Tools and Algorithms for the Construction and Analysis of Systems (**TACAS**), 2025.

[74] *On Central Primitives for Quantum Cryptography with Classical Communication*
Kai-Min Chung, Eli Goldin, Matthew Gray
In Proceedings of The 44th International Cryptology Conference (**CRYPTO**), 2024.

[73] *Best-of-Both-Worlds Multiparty Quantum Computation with Publicly Verifiable Identifiable Abort*
Kai-Min Chung, Mi-Ying Huang, Er-Cheng Tang, and Jiapeng Zhang
In Proceedings of The 43rd Annual International Conference on the Theory and Applications of Cryptology and Information Security (**EUROCRYPT**), 2024.

[72] *On the (Im)possibility of Time-Lock Puzzles in the Quantum Random Oracle Model*
Abtin Afshar, Kai-Min Chung, Yao-Ching Hsieh, Yao-Ting Lin, and Mohammad Mahmoody
In Proceedings of The 29th Annual International Conference on the Theory and Applications of Cryptology and Information Security (**ASIACRYPT**), 2023.

[71] *AutoQ: An Automata-based Quantum Circuit Verifier*
Yu-Fang Chen , Kai-Min Chung, Ondřej Lengál, Jyun-Ao Lin, Wei-Lun Tsai, and Di-De Yen
In Proceedings of The 35th International Conference on Computer Aided Verification (**CAV**), 2023.

[70] *On the Impossibility of General Parallel Fast-forwarding of Hamiltonian Simulation*
Nai-Hui Chia, Kai-Min Chung, Yao-Ching Hsieh, Han-Hsuan Lin, Yao-Ting Lin, and Yu-Ching Shen
In Proceedings of The Computational Complexity Conference (**CCC**), 2023.

[69] *An Automata-based Framework for Verification and Bug Hunting in Quantum Circuits*
Yu-Fang Chen, Kai-Min Chung, Ondřej Lengál, Jyun-Ao Lin, Wei-Lun Tsai, and Di-De Yen

In Proceedings of The 44th ACM SIGPLAN Conference on Programming Language Design and Implementation (**PLDI**), 2023. *Distinguished Paper Award*.

[68] *Black-Box Separations for Non-interactive Classical Commitments in a Quantum World*
Kai-Min Chung, Yao-Ting Lin, and Mohammad Mahmoody
In Proceedings of The 42nd Annual International Conference on the Theory and Applications of Cryptology and Information Security (**EUROCRYPT**), 2023.

[67] *Collusion-Resistant Functional Encryption for RAMs*
Prabhanjan Ananth, Kai-Min Chung, Xiong Fan, and Luowen Qian
In Proceeding of The 28th Annual International Conference on the Theory and Applications of Cryptology and Information Security (**ASIACRYPT**), 2022.

[66] *On the Impossibility of Key Agreements from Quantum Random Oracles*
Per Austrin, Hao Chung, Kai-Min Chung, Shiuan Fu, Yao-Ting Lin, and Mohammad Mahmoody
In Proceeding of The 42nd International Cryptology Conference (**CRYPTO**), 2022.

[65] *Post-Quantum Simulatable Extraction with Minimal Assumptions: Black-Box and Constant-Round*
Nai-Hui Chia, Kai-Min Chung, Xiao Liang, and Takashi Yamakawa
In Proceeding of The 42nd International Cryptology Conference (**CRYPTO**), 2022.

[64] *Constant-round Blind Classical Verification of Quantum Sampling*
Kai-Min Chung, Yi Lee, Han-Hsuan Lin, and Xiaodi Wu
In Proceeding of The 41st Annual International Conference on the Theory and Applications of Cryptology and Information Security (**EUROCRYPT**), 2022.

[63] *A Note on the Post-Quantum Security of (Ring) Signatures*
Rohit Chatterjee, Kai-Min Chung, Xiao Liang, and Giulio Malavolta
In Proceedings of The 25th Practice and Theory of Public-Key Cryptography (**PKC**), 2022.

[62] *On the Impossibility of Post-Quantum Black-Box Zero-Knowledge in Constant Rounds*
Nai-Hui Chia, Kai-Min Chung , Qipeng Liu, and Takashi Yamakawa
In Proceedings of The 62nd Annual IEEE Symposium on Foundations of Computer Science (**FOCS**), 2021.
Contributed talk at the 11th International Conference on Quantum Cryptography (**QCrypt**), 2021.
- Merged with Black-Box Approach to Post-Quantum Zero-Knowledge in Constant Round

Contributed talk at the 25th Annual Conference on Quantum Information Processing (**QIP**), 2022.
- Merged with Black-Box Approach to Post-Quantum Zero-Knowledge in Constant Round

[61] *On the Concurrent Composition of Quantum Zero-Knowledge*
Prabhanjan Ananth, Kai-Min Chung, and Rolando L. La Placa
In Proceedings of The 41st International Cryptology Conference (**CRYPTO**), 2021.

[60] *Round Efficient Secure Multiparty Quantum Computation with Identifiable Abort*
Bar Alon, Hao Chung, Kai-Min Chung, Mi-Ying Huang, Yi Lee, and Yu-Ching Shen
In Proceedings of The 41st International Cryptology Conference (**CRYPTO**), 2021.

[59] *Game-Theoretic Fairness Meets Multi-Party Protocols: The Case of Leader Election*
Kai-Min Chung, T-H. Hubert Chan, Ting Wen, and Elaine Shi
In Proceedings of The 41st International Cryptology Conference (**CRYPTO**), 2021.

[58] *A Black-Box Approach to Post-Quantum Zero-Knowledge in Constant Rounds*
Nai-Hui Chia, Kai-Min Chung, and Takashi Yamakawa
In Proceedings of The 41st International Cryptology Conference (**CRYPTO**), 2021.

[57] *Sample Efficient Algorithms for Learning Quantum Channels in PAC Model and the Approximate State Discrimination Problem*
Kai-Min Chung and Han-Hsuan Lin
In Proceedings of The 16th Conference on the Theory of Quantum Computation, Communication and Cryptography (**TQC**), 2021.

[56] *On the Compressed-Oracle Technique, and Post-Quantum Security of Proofs of Sequential Work*
Kai-Min Chung, Serge Fehr, Yu-Hsuan Huang, and Tai-Ning Liao
In Proceedings of The 40th Annual International Conference on the Theory and Applications of Cryptographic Techniques (**EUROCRYPT**), 2021.
Contributed talk at the 11th International Conference on Quantum Cryptography (**QCrypt**), 2021.

[55] *Classical Verification of Quantum Computations with Efficient Verifier*
Nai-Hui Chia, Kai-Min Chung, and Takashi Yamakawa
In Proceedings of The 18th Theory of Cryptography Conference (**TCC**), 2020.

[54] *Tight Quantum Time-Space Tradeoffs for Function Inversion*
Kai-Min Chung, Siyao Guo, Qipeng Liu, and Luowen Qian
In Proceedings of The 61st Annual IEEE Symposium on Foundations of Computer Science (**FOCS**), 2020.

[53] *On the Hardness of Massively Parallel Computation*
Kai-Min Chung, Kuan-Yi Ho, and Xiaorui Sun
In Proceedings of The 32nd ACM Symposium on Parallelism in Algorithms and Architectures (**SPAA**), 2020.

[52] *Lower Bounds for Function Inversion with Quantum Advice*
Kai-Min Chung, Tai-Ning Liao, and Luowen Qian
In Proceedings of The 1st Information-Theoretic Cryptography (**ITC**), 2020.

[51] *MPC for MPC: Secure Computation on a Massively Parallel Computing Architecture*
T-H. Hubert Chan, Kai-Min Chung, Wei-Kai Lin, and Elaine Shi
In Proceedings of The 11th Innovations in Theoretical Computer Science (**ITCS**), 2020.

[50] *On the Need for Large Quantum Depth*
Nai-Hui Chia, Kai-Min Chung, and Ching-Yi Lai
In Proceedings of The 52nd ACM Symposium on Theory of Computing (**STOC**), 2020.
Contributed talk at the 23rd Annual Conference on Quantum Information Processing(**QIP**), 2020.
The Journal of the ACM (**JACM**), 70(6), February 2023

[49] *Adaptively Secure Garbling Schemes for Parallel Computations*
Kai-Min Chung and Luowen Qian
In Proceedings of The 17th Theory of Cryptography Conference (**TCC**), 2019.

[48] *Interactive Leakage Chain Rule for Quantum Min-entropy,*
Kai-Min Chung and Ching-Yi Lai
In Proceedings of The 2019 IEEE International Symposium on Information Theory, 2019 (**ISIT**), 2019.

[47] *A Quantum-Proof Non-Malleable Extractor With Application to Privacy Amplification against Active Quantum Adversaries*
Divesh Aggarwal, Kai-Min Chung, Han-hsuan Lin, and Thomas Vidick
In Proceedings of The 38th Annual International Conference on the Theory and Applications of Cryptographic Techniques (**EUROCRYPT**), 2019.

[46] *On Quantum Advantage in Information Theoretic Single-Server PIR*
Dorit Aharonov, Zvika Brakerski, Kai-Min Chung, Ayal Green, Ching-Yi Lai, and Or Sattath
In Proceedings of The 38th Annual International Conference on the Theory and Applications of Cryptographic Techniques (**EUROCRYPT**), 2019.

[45] *Foundations of Differentially Oblivious Algorithms*
T-H. Hubert Chan, Kai-Min Chung, Bruce Maggs, and Elaine Shi
In Proceedings of ACM-SIAM Symposium on Discrete Algorithms (**SODA**), 2019.
The Journal of the ACM (**JACM**), 69(4), August 2022

[44] *On the Algorithmic Power of Spiking Neural Networks*
Kai-Min Chung, Chi-Ning Chou, and Chi-Jen Lu
In Proceedings of The 10th Innovations in Theoretical Computer Science (**ITCS**), 2019.

[43] *Game Theoretic Notions of Fairness in Multi-Party Coin Toss*
Kai-Min Chung, Yue Guo, Wei-Kai Lin, Rafael Pass, and Elaine Shi
In Proceedings of the 16th Theory of Cryptography Conference (**TCC**), 2018.

[42] *On the Complexity of Simulating Auxiliary Input*
Yi-Hsiu Chen, Kai-Min Chung, and Jyun-Jie Liao
In Proceedings of the 37th Annual International Conference on the Theory and Applications of Cryptographic Techniques (**EUROCRYPT**), 2018.

[41] *On the Depth of Oblivious Parallel RAM*
T-H. Hubert Chan, Kai-Min Chung, and Elaine Shi
In Proceedings of the 23rd Annual International Conference on the Theory and Applications of Cryptology and Information Security (**ASIACRYPT**), 2017.

[40] *Computational Notions of Quantum Min-Entropy*
Yi-Hsiu Chen, Kai-Min Chung, Ching-Yi Lai, Salil Vadhan, and Xiaodi Wu
Contributed talk at the 7th International Conference on Quantum Cryptography (**QCrypt**), 2017.

[39] *General Randomness Amplification with Non-signaling Security*
Kai-Min Chung, Yaoyun Shi, and Xiaodi Wu
Contributed talk at the 20th Annual Conference on Quantum Information Processing (**QIP**), 2017.

[38] *Delegating RAM Computations with Adaptive Soundness and Privacy*
Prabhanjan Ananth, Yu-Chi Chen, Kai-Min Chung, Huijia Lin, and Wei-Kai Lin
In Proceedings of the 14th Theory of Cryptography Conference (**TCC-B**), 2016.

[37] *Cryptography for Parallel RAM via Indistinguishability Obfuscation*
Yu-Chi Chen, Sherman S. M. Chow, Kai-Min Chung, Russell W. F. Lai, Wei-Kai Lin, and Hong-Sheng Zhou
In Proceedings of the 7th Innovations in Theoretical Computer Science (**ITCS**), 2016.

[36] *Oblivious Parallel RAM and Applications*
Elette Boyle, Kai-Min Chung, and Rafael Pass
In Proceedings of the 13th Theory of Cryptography Conference (**TCC-A**), 2016.

[35] *Large-Scale Secure Computation: Multi-party Computation for (Parallel) RAM Programs*
Elette Boyle, Kai-Min Chung, and Rafael Pass
In Proceedings of the 35th International Cryptology Conference (**CRYPTO**), 2015.

[34] *Constant-Round Concurrent Zero-knowledge from Indistinguishability Obfuscation*
Kai-Min Chung, Huijia Lin, and Rafael Pass
In Proceedings of the 35th International Cryptology Conference (**CRYPTO**), 2015.

[33] *Parallel Repetition for Entangled k-player Games via Fast Quantum Search*
Xiaodi Wu, Kai-Min Chung, and Henry S. Yuen
In Proceedings of the 30th Computational Complexity Conference (**CCC**), 2015.

[32] *Tight Parallel Repetition Theorems for Public-Coin Arguments using KL-divergence*
Kai-Min Chung and Rafael Pass
In Proceedings of the 12th Theory of Cryptography Conference (**TCC**), 2015.

[31] *From Weak to Strong Zero-Knowledge and Applications*
Kai-Min Chung, Edward Lui, and Rafael Pass
In Proceedings of the 12th Theory of Cryptography Conference (**TCC**), 2015.

[30] *Statistically-secure ORAM with $\tilde{O}(\log^2 n)$ Overhead*
Kai-Min Chung, Zhenming Liu, and Rafael Pass
In Proceedings of the 20th Annual International Conference on the Theory and Application of Cryptology and Information Security (**ASIACRYPT**), 2014.

[29] *On the Impossibility of Cryptography with Tamperable Randomness*
Per Austrin, Kai-Min Chung, Mohammad Mahmoody, Rafael Pass, and Karn Seth
Algorithmica, 79(4):1052-1101, December 2017
In Proceedings of the 34th International Cryptology Conference (**CRYPTO**), 2014.

[28] *Distributed Algorithms for the Lovasz Local Lemma and Graph Coloring*
Kai-Min Chung, Seth Pettie, and Hsin-Hao Su
In Proceedings of the 2014 ACM Symposium on Principles of Distributed Computing (**PODC**), 2014.
Distributed Computing, 30(4):261-280, August 2017

[27] *Physical Randomness Extractors: Generating Random Numbers with Minimal Assumptions*
Kai-Min Chung, Yaoyun Shi, and Xiaodi Wu
Accepted as a *plenary talk* (joint with "Robust Protocols for Securely Expanding Randomness and Distributing Keys Using Untrusted Quantum Devices" by Carl Miller and Yaoyun Shi) at the 17th Conference on Quantum Information Processing (**QIP**), 2014.

[26] *On Extractability (a.k.a. Differing-Inputs) Obfuscation*
Elette Boyle, Kai-Min Chung, and Rafael Pass
In Proceedings of the 11th IACR Theory of Cryptography Conference (**TCC**), 2014.

[25] *4-Round Resettably-Sound Zero Knowledge*
Kai-Min Chung, Rafail Ostrovsky, Rafael Pass, Muthuramakrishnan Venkitasubramaniam, and Ivan Visconti
In Proceedings of the 11th IACR Theory of Cryptography Conference (**TCC**), 2014.

[24] *Interactive Coding, Revisited*
Kai-Min Chung, Rafael Pass, and Sidharth Telang
In Proceedings of the 54th Annual IEEE Symposium on Foundations of Computer Science (**FOCS**), 2013

[23] *Constant-Round Concurrent Zero Knowledge From P-Certificates*
Kai-Min Chung, Huijia Lin, and Rafael Pass
In Proceedings of the 54th Annual IEEE Symposium on Foundations of Computer Science (**FOCS**), 2013

[22] *Simultaneous Resettability from One-Way Functions*
Kai-Min Chung, Rafail Ostrovsky, Rafael Pass, and Ivan Visconti
In Proceedings of the 54th Annual IEEE Symposium on Foundations of Computer Science (**FOCS**), 2013

[21] *Functional Encryption from (Small) Hardware Tokens*
Kai-Min Chung, Jonathan Katz, and Hong-Sheng Zhou
In Proceedings of the 19th Annual International Conference on the Theory and Application of Cryptology and Information Security (**ASIACRYPT**), 2013

[20] *Non-Black-Box Simulation from One-Way Functions And Applications to Resettable Security*
Kai-Min Chung, Rafael Pass, and Karn Seth
In Proceedings of the 45th ACM Symposium on Theory of Computing (**STOC**), 2013.
SIAM Journal on Computing, 45(2):415-458, May 2016

[19] *On the Lattice Smoothing Parameter Problem*
Kai-Min Chung, Daniel Dadush, Feng-Hao Liu, and Chris Peikert
In Proceedings of the 28nd Annual IEEE Conference on Computational Complexity (**CCC**), 2013.

[18] *Parallel Repetition Theorems for Interactive Arguments*
Kai-Min Chung and Rafael Pass
In Proceedings of the 7th Theory of Cryptography Conference (**TCC**), 2010.

[17] *Randomness-Dependent Message Security*
Eleanor Birrell, Kai-Min Chung, Rafael Pass, and Sidharth Telang
In Proceedings of the 10th IACR Theory of Cryptography Conference (**TCC**), 2013.

[16] *Can Theories be Tested? A Cryptographic Treatment of Forecast Testing*
Kai-Min Chung, Edward Lui, and Rafael Pass
In Proceedings of the 4th Innovations in Theoretical Computer Science (**ITCS**), 2013

[15] *On the Power of Nonuniformity in Proofs of Security*
Kai-Min Chung, Huijia Lin, Mohammad Mahmoody, and Rafael Pass
In Proceedings of the 4th Innovations in Theoretical Computer Science (**ITCS**), 2013

[14] *The Knowledge Tightness of Parallel Zero-Knowledge*
Kai-Min Chung, Rafael Pass, and Wei-Lung Dustin Tseng
In Proceedings of the 9th IACR Theory of Cryptography Conference (**TCC**), 2012

[13] *Chernoff-Hoeffding Bounds for Markov Chains: Generalized and Simplified*
Kai-Min Chung, Henry Lam, Zhenming Liu, and Michael Mitzenmacher
In Proceedings of the 28th International Symposium on Theoretical Aspects of Computer Science (**STACS**), 2012

[12] *The Randomness Complexity of Parallel Repetition*
Kai-Min Chung and Rafael Pass
In Proceedings of the 52nd Annual IEEE Symposium on Foundations of Computer Science (**FOCS**), 2011

[11] *Memory Delegation*
Kai-Min Chung, Yael Tauman Kalai, Feng-Hao Liu, and Ran Raz
In Proceedings of the 31st Annual Cryptology Conference (**CRYPTO**), 2011

[10] *Efficient Secure Two-Party Exponentiation*
Ching-Hua Yu, Sherman S.M. Chow, Kai-Min Chung, and Feng-Hao Liu

In Proceedings of the Cryptographer's Track at the RSA Conference (**CT-RSA**), 2011

[9] *Improved Delegation of Computation Using Fully Homomorphic Encryption*
Kai-Min Chung, Yael Tauman Kalai, and Salil P. Vadhan
In Proceedings of the 30th Annual Cryptology Conference (**CRYPTO**), 2010

[8] *Efficient String-commitment From Weak Bit-commitment*
Kai-Min Chung, Feng-Hao Liu, Chi-Jen Lu, and Bo-Yin Yang
In Proceedings of the 16th Annual International Conference on the Theory and Application of Cryptology and Information Security (**ASIACRYPT**), 2010

[7] *Parallel Repetition Theorems for Interactive Arguments*
Kai-Min Chung and Feng-Hao Liu
In Proceedings of the 7th IACR Theory of Cryptography Conference (**TCC**), 2010
Invited to Journal of Cryptology. *Best Student Paper*.

[6] *AMS Without 4-Wise Independence on Product Domains*
Vladimir Braverman, Kai-Min Chung, Zhenming Liu, Michael Mitzenmacher, and Rafail Ostrovsky
In Proceedings of the 26th International Symposium on Theoretical Aspects of Computer Science (**STACS**), 2010

[5] *Tight Bounds for Hashing Block Sources*
Kai-Min Chung and Salil Vadhan
In Proceedings of Approximation, Randomization and Combinatorial Optimization. Algorithms and Techniques, 12th International Workshop, RANDOM 2008 (**RANDOM**), 2008

[4] *S-t Connectivity on Digraphs with a Known Stationary Distribution*
Kai-Min Chung, Omer Reingold, and Salil Vadhan
In Proceedings of the 22nd Annual IEEE Conference on Computational Complexity (**CCC**), 2007
ACM Transactions on Algorithms, 7(3):30, 2011

[3] *An Optimal Algorithm for Maximum-Density Segment Problem*
Kai-Min Chung and Hsueh-I Lu
In Proceedings of European Symposium on Algorithms (**ESA**), 2003
SIAM Journal on Computing, 34(2):373-387, 2004

[2] *Decomposition Methods for Linear Support Vector Machines, Neural Computation*
Kai-Min Chung, Wei-Chun Kao, Chia-Liang Sun, and Chih-Jen Lin
In Proceedings of International Conference on Acoustics, Speech, and Signal Processing (**ICASSP**), 2003.
Neural Computation, 16:1689-1704, 2004.

[1] *Radius Margin Bounds for Support Vector Machines with RBF Kernel*
Kai-Min Chung, Wei-Chun Kao, Chia-Liang Sun, Li Lun Wang, and Chih-Jen Lin
In Proceedings of International Conference on Neural Information Processing (**ICONIP**), 2002
Neural Computation, 15:2654-2681, 2003.

JOURNAL PUBLICATIONS

[16] *Online TSP and Online Dial-a-ride with Predictions*
Hsiao-Yu Hu, Hao-Ting Wei, Meng-Hsi Li, Kai-Min Chung, Chung-Shou Liao
INFORMS Journal on Computing (IJOC), 35(1), 1-14, March 2025

[15] *On the Need for Large Quantum Depth*
Nai-Hui Chia, Kai-Min Chung, and Ching-Yi Lai
The Journal of the ACM (JACM), 70(6), February 2023

[14] *Foundations of Differentially Oblivious Algorithms*
T-H. Hubert Chan, Kai-Min Chung, Bruce Maggs, and Elaine Shi
The Journal of the ACM (JACM), 69(4), August 2022, Featured Article

[13] *Cryptography with Disposable Backdoors*
Kai-Min Chung, Marios Georgiou, Ching-Yi Lai, and Vassilis Zikas
Cryptography, 3(3): 22, September 2019

[12] *Quantum encryption and generalized Shannon impossibility*
Ching-Yi Lai and Kai-Min Chung
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[7] *Non-Black-Box Simulation from One-Way Functions And Applications to Resettable Security*
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[5] *Why Simple Hash Functions Work: Exploiting the Entropy in a Data Stream.*
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[4] *S-T Connectivity on Digraphs with a Known Stationary Distribution*
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[2] *An Optimal Algorithm for Maximum-Density Segment Problem*
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BOOK CHAPTER

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MANUSCRIPTS

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[3] *Multi-Source Randomness Extractors Against Quantum Side Information, and their Applications*
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[2] *A Simple ORAM*
Kai-Min Chung and Rafael Pass
Manuscript, 2014

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PATENTS

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U.S. Provisional Patent Application No. 15/329,730, filed July 31, 2015.

Yaoyun Shi, Kai-Min Chung, and Xiaodi Wu. 2014. Extraction of Random Numbers from Physical Systems.
U.S. Provisional Patent Application No. 61/927,472, filed January 14, 2014. Patent issued date: October 18, 2016, Patent No. 9471280

RESEARCH ADVISING

Postdoctoral Fellows

Jyun-Jie Liao 廖俊杰 May. 2026-Present

- Ph.D., Computer Science, Cornell University, Ithaca, New York, USA
- Research on Randomness in Computation, Computational Complexity, Combinatorics,Cryptography

Tsun-Ming Cheung 張峻銘(co-advised with Prof. Meng-Tsung Tsai) Aug. 2025-Aug. 2026

- Ph.D., Computer Science, McGill University, Montreal, Canada
- Research on theoretical computer science and discrete mathematics, including communication complexity, streaming algorithms, and quantum computation.

Shi-Han Hung 洪士涵 Nov. 2023-Mar. 2024

- Ph.D., Computer Science, University of Maryland, College Park, USA
- Research on Quantum Information Science

Chia-Liang Sun 孫嘉梁 Aug. 2021-Present

- Ph.D., Mathematics, University of Texas at Austin, USA
- Research on Mathematics and Cryptography

Jyun-Ao Lin 林濬璈 Oct. 2020-Jan. 2024

- Ph.D., Mathematics, Paris Diderot University 7, France
- Research on Mathematics and Cryptography
- Now as an Assistant Professor at Dept. of Computer Science and Information Engineering, National Taipei University of Technology.

Gelo Noel Tabia (co-advised with Prof. Yeong-Cherng Liang) Oct. 2018-Oct. 2020

- Ph.D., Department of Physics and Astronomy, University of Waterloo, Canada
- Research on Quantum Cryptography

Han-Hsuan Lin 林瀚佥 Oct. 2016-Nov. 2016

- Ph.D., Physics, Massachusetts Institute of Technology
- Research on Quantum Information
- Now as an Assistant Professor at Institute of Information Security, National Tsing Hua University.

Ching-Yi Lai 賴青沂 Sep. 2015-Jul. 2018

- Ph.D., Electrical Engineering, University of Southern California, Los Angeles
- Research on Quantum Information Theory and Quantum Cryptography
- Now as an Associate Professor at Inst. of Comm. Eng., National Yang Ming Chiao Tung University

Yu-Chi Chen 陳昱圻 Jan. 2014-Jul. 2017

- Ph.D., Computer Science, National Chung Hsing University
- Research on Cryptography
- Now as an Associate Professor at the Dept. of Computer Science and Information Engineering, National Taipei University of Technology.

Research Assistants

Yu-Hxiang Chen 陳昱翔 Jul. 2026-Present

- M.S., Department of Mathematics, University of Bonn
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- M.S., Department of Electrical Engineering, National Taiwan University
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- B.S., Department of Electrical Engineering, National Taiwan Normal University
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Hsiao-Yu Hu 胡筱郁 Mar. 2021- Aug. 2022

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- Ph.D. student at Northwestern University
- Research on Algorithms

Wei-Hsiang Hung 洪偉翔 Oct. 2020-Present

- B.S., Interdisciplinary Program of Electrical Engineering and Computer Science, National Tsing Hua University.
- Research on Cryptography

Yao-Ching Hsieh 謝耀慶 Jul. 2020-Aug. 2022

- B.S., Computer Science and Information Engineering, National Taiwan University.
- Ph.D. student at University of Washington
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Yuan-Ho Yao 姚元和 Apr. 2020-Mar. 2021

- M.S., Philosophy, National Yang Min University

- Research on Communication Complexity

Yao-Ting Lin 林耀廷 Jan. 2020-Sep. 2022

- M.S., Department of Physics, National Taiwan University.
- Ph.D. student at University of California, Santa Barbara
- Research on Cryptography, Quantum Information

Shiuan Fu 傅璿 Dec. 2019-May. 2022

- M.S., Mathematics, National Taiwan University.
- Research on Cryptography, Algorithms, Quantum Information, Computational Complexity

Yu-Hsuan Huang 黃右萱 Jul. 2019-Jul. 2021

- M.S., Department of Physics, National Taiwan University
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Yu-Ching Shen 沈于晴 Jun. 2019-Aug. 2023

- M.S., Department of Physics, National Taiwan University.
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Yi Lee 李懿 Mar. 2019-Nov. 2020

- M.S., Department of Mathematics, Johns Hopkins University.
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Chun-Hsiang Chan 詹鈞翔 Sep. 2018-Jul. 2019

- B.S., Electrical Engineering, National Taiwan University
- Research on Cryptography

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- M.S., Department of Industrial Engineering, National Tsing Hua University.
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Hao Chung 鍾豪 Aug. 2018-Feb. 2021

- M.S., Electrical Engineering, National Taiwan University
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Kuan-Yi Ho 何冠誼 Dec. 2017-Aug. 2018

- B.S., Electrical Engineering, National Taiwan University
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- Research Fellow at Center of Computational Neuroscience at Flatiron Institute, USA
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Wei-Kai Lin 林偉楷 Nov. 2014-Jul. 2016

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Summer Internship

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Chi-Ning Chou 周紀寧 Jul.2015-Aug.2015

- B.S. Student, Computer Science, National Taiwan University

VISITORS HOSTED

Short Term Visitors

Yu-Long Chen (KU Leuven, Belgium) Oct. 2-8, 2026
Hsien-En Tzeng (SOKENDAI, Japan) Sep. 15-16, 2026
Yu-Ching Shen (Rice University, USA) Jun.29-Jul. 5, 2026
Yan-Lin Chen (Joint Center for Quantum Information and Computer Science, USA) Jun.22-26, 2026
Alper Çakan (Carnegie Mellon University, USA) May. 29-Jun. 16, 2026
Hung-Wei Tseng (University of California, Riverside, USA) May. 18-Jun. 10, 2026
ETHAN (YI) LEE (University of Maryland, USA) May. 13-Jul. 27, 2026
Chia-Ying Lin (Rice University, USA) Apr. 20-Aug. 16, 2026
Tomoyuki Morimae (Kyoto University, Japan) Apr. 10-18, 2026
Hao Chung (LayerZero Labs, Canada) Mar. 16-20, 2026
Marvin Beckmann (Technical University of Denmark, Denmark) Mar. 12-13, 2026
Danny Z. Chen (University of Notre Dame, USA) Mar. 1-Apr. 30, 2026
Tomoyuki Morimae (Kyoto University, Japan) Jan. 8-14, 2026
Shogo Yamada (Kyoto University, Japan) Jan. 7-22, 2026
Tzu-Hsiang Huang (University of Illinois Urbana-Champaign, USA) Jan. 5-16, 2026
Chi-Ning Chou (Flatiron Institute, USA) Jan. 5 -Feb. 1, 2026
Er-Cheng Tang (University of Washington, USA) Dec. 22, 2025-Jan. 9, 2026
Wei-Kai Lin (University of Virginia, USA) Dec. 22-24, 2025-Jan. 2-6, 2026
Mi-Ying Huang (University of Southern California, USA) Dec. 20, 2025-Jan. 20, 2026
Taiga Hiroka (Hon Hai Research Institute, Quantum Computing Research Center) Dec. 18-22, 2025
Ting-Wei Hsieh (University of Washington, USA) Dec. 17, 2025-Jan. 20, 2026
Chia-Hsuan Huang (Theoretical Physics, Caltech, USA) Dec. 17-31, 2025
Yan-Lin Chen (QuICS, the University of Maryland, USA) Dec. 15-26, 2025
Tomoyuki Morimae (Kyoto University, Japan) Dec. 15-22, 2025
Yao-Ting Lin (UC Santa Barbara, USA) Dec. 10-29, 2025
Salil Vadhan (Harvard University, USA) Dec. 9-11, 2025
Danny Chen (University of Notre Dame, USA) Dec. 6-7, 11, 2025
Yossi Azar (Tel Aviv University, Israel) Dec. 5-7, 2025
Mohammad Mahmoody (University of Virginia, USA) Dec. 2-11, 2025
Hakop Pashayan (Hon Hai Research Institute, Quantum Computing Research Center) Nov. 24-Nov. 31, 2025
Masahito Hayashi (Nagoya University, Japan) Jul. 30-Aug. 2, 2025
David Cui (Massachusetts Institute of Technology, USA) Jul. 10-Aug. 4, 2025
Yan-Lin Chen (Algorithms and Complexity, Netherlands) Jun. 30-Jul. 4, 2025
Amin Shiraz Gilani (University of Maryland, USA) Jun. 29-Jul. 13, 2025
Andrej Bogdanov (University of Ottawa, Canada) Jun. 24-27, 2025
Yan-Lin Chen (Algorithms and Complexity, Netherlands) Jun. 30- Jul. 4, 2025
Amin Shiraz Gilani (University of Maryland, USA) Jun. 29- Jul.13, 2025

Andrej Bogdanov (University of Ottawa, Canada) Jun. 24-27, 2025
Yan-Lin Chen (Algorithms and Complexity, Netherlands) Jun. 2-7, 2025
Yao-Ting Lin (UC Santa Barbara, USA) Jun. 2-6, 2025
Nai-Hui Chia (Rice University, USA) May 26- Jun. 19, 2025
Shin Sun (Okinawa Institute of Science and Technology Graduate University, Japan) Apr. 30- May 14, 2025
Tomoyuki Morimae (Kyoto University, Japan) Mar. 25-31, 2025
Shota Yamada (National Institute of Advanced Industrial Science and Technology, Japan) Mar. 19-28, 2025
Akshima (NYU Shanghai, China) Feb. 28- Apr. 1, 2025
Chi-Ning Chou(Flatiron Institute, USA) Feb. 5-13, 2025
Yun Lu (University of Victoria, Canada) Jan. 1-24, 2025
Si-Yao Guo (NYU Shanghai, China) Jan. 1- Dec. 12, 2025
Yu-Hsuan Huang (Centrum Wiskunde & Informatica, Netherlands) Dec. 27, 2024-Jan. 1, 2025
Chin Ho Lee (North Carolina State University, USA) Dec. 17-23, 2024
Yao-Ching Hsieh (University of Washington, USA) Dec. 13, 2024-Jan. 9, 2025
Er-Cheng Tang (University of Washington, USA) Dec. 6-20, 2024
Yan-Lin Chen (Algorithms and Complexity, Netherlands) Dec. 3, 2024-Jan. 11, 2025
Mi-Ying Huang(University of Southern California, USA) Nov. 18- Dec. 28, 2024
Hao Chung (Carnegie Mellon University, USA) Sep. 18- Oct. 15, 2024
Yan-Lin Chen (Algorithms and Complexity, Netherlands) Aug. 29- Sep. 3, 2024
Aditya Gulati (University of California, Santa Barbara, USA) Aug. 19- Sep. 14, 2024
Jyun-Jie Liao (University of California San Diego, USA) Aug. 1-31, 2024
Si-Yao Guo (NYU Shanghai, China) Aug. 1-31, 2024
Nai-Hui Chia (Rice University, USA) Jul. 8-24, 2024
Aditya Gulati (University of California, Santa Barbara, USA) Jun. 24-Jul. 19, 2024
Pei-San Huang (University of Houston, USA) Jun. 19-Jul. 25, 2024
David Junzi Wu (The University of Texas at Austin, USA) Jun. 19-23, 2024
Yao-Ching Hsieh (University of Washington, USA) Jun. 1-26, 2024
Hao Chung (Carnegie Mellon University, USA) Feb. 22-Mar. 9, 2024
Tomoyuki Morimae (Kyoto University, Japan) Feb. 17-21, 2024
Yu-Hsuan Huang (Centrum Wiskunde & Informatica, Netherlands) Jan. 21-27, 2024
Yu-Ching Shen (Rice University, USA) Jan. 20-25, 2024
Zheng-Yi Han (Rice University, USA) Jan. 20-25, 2024
Wan-Bing Zhao (Rice University, USA) Jan. 20-25, 2024
Shota Yamada (National Institute of Advanced Industrial Science and Technology, Japan) Jan. 10-Feb. 8, 2024
Chi-Ning Chou (Flatiron Institute, USA) Jan. 10-15, 2024
Yi-Xin Shen (King's College London, UK) Jan. 8-12, 2024
Er-Cheng Tang (University of Washington, USA) Dec. 19, 2023-Jan. 14, 2024
Yan-Lin Chen (Algorithms and Complexity, Netherlands) Dec. 16, 2023-Jan. 20, 2024
Yun Lu (University of Victoria, Canada) Dec. 11-22, 2023
Yao-Ting Lin (UC Santa Barbara, USA) Dec. 9, 2023-Jan. 5, 2024
Hsiao-Yu Hu (Northwestern University, USA) Dec. 5-30, 2023
Noam Mazor (Cornell Tech, USA) Dec. 4-8, 2023
Russell W. F. Lai (Aalto University, Finland) Dec. 4-8, 2023
Giulio Malavolta (Bocconi University, Italy) Dec. 3-7, 2023

Ethan Yi Lee (University of Maryland, USA)	Nov. 29-Dec. 8, 2023
Mi-Ying Huang (University of Southern California, USA)	Nov. 28-Dec. 14, 2023
Zvika Brakerski (Weizmann Institute of Science, Israel)	Nov. 28-Dec. 3, 2023
Brian Andrew LaMacchia (Farcaster Consulting Group, USA)	Nov. 27-Dec. 5, 2023
Xin-Yu Mao (University of Southern California, USA)	Nov. 27-Dec. 4, 2023
Iftach Haitner (Tel Aviv University, Israel)	Nov. 27-Dec. 4, 2023
Tal Malkin (Columbia University, USA)	Nov. 25-Dec. 4, 2023
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Hsin-Hao Su (Boston College, USA)	Nov. 15-17, 2023
Luca Trevisan (Bocconi University, Italy)	Aug. 16-24, 2023
Jyun-Jie Liao (Cornell University, USA)	Jul. 24-Aug. 3, 2023
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Han-Hsuan Lin (National Tsing Hua University, Taiwan)	Jul. 1-Aug. 31, 2023
Si-Yao Guo (NYU Shanghai, China)	Jul. 1-31, 2023
Yao-Ting Lin (UC Santa Barbara, USA)	Jun. 26-Jul. 24, 2023
Mi-Ying Huang (University of Southern California, USA)	Jun. 13-Aug. 17, 2023
Yao-Ching, Hsieh (University of Washington, USA)	Jun. 12-Jul. 18, 2023
Ethan Yi Lee (University of Maryland, USA)	Jun. 12-Aug. 18, 2023
Eli Goldin (New York University, USA)	Jun. 3-Jul. 31, 2023
Taiga Hiroka (Kyoto University, Japan)	May 22-26, 2023
Minki Hhan (Korea Institute For Advanced Study, Korea)	May 18-27, 2023
Takashi Yamakawa (NTT Social Informatics Laboratories, Japan)	May 15-25, 2023
Tomoyuki Morimae (Kyoto University, Japan)	May 13-21, 2023
Shih-Han Hung (University of Texas at Austin, USA)	Apr. 11-15, 2023
Luca Trevisan (Bocconi University, Italy)	Jan. 5-14, 2023
Chi-Ning Chou (Carnegie Mellon University, USA)	Dec. 30, 2022-Jan. 19, 2023
Hao Chung (Carnegie Mellon University, USA)	Dec. 24, 2022-Jan. 15, 2023
Mi-Ying Huang (University of Southern California)	Dec. 22, 2022-Jan. 4, 2023
Andreas H‘ijlsing (Eindhoven University of Technology, Netherlands)	Dec. 10-15, 2022
Yingkai Ouyang (National University of Singapore, Singapore)	Dec. 10-14, 2022
Christopher Brzuska (Aalto University, Finland)	Dec. 10-18, 2022
Christoph Egger (Institut de Recherche en Informatique Fondamentale, France)	Dec. 10-17, 2022
Dominique Unruh (University of Tartu, Estonia)	Dec. 1-19, 2022
Li Chen (Georgia Institute of Technology, USA)	Sep. 10-25, 2022
Omri Shmueli (Tel Aviv University, Israel)	Sep. 1-10, 2022
Nai-Hui Chia (Indiana University Bloomington, USA)	Jul. 6-8, 2022
Mi-Ying Huang (University of Southern California, USA)	Jul. 2-19, 2022
Kazuo Iwama (RIMS, Kyoto University, Japan)	Jun. 23-26, 2022
Hao Chung (Carnegie Mellon University, USA)	Dec. 31, 2021-Jan. 22, 2022
Yan-Lin Chen (CWI and QuSoft, Netherlands)	Dec. 17, 2021-Jan. 15, 2022
Yan-Lin Chen (CWI and QuSoft, Netherlands)	Dec. 21, 2020-Jan. 15, 2021
Liang Yeong-Cherng (NCKU, Taiwan)	July. 8-15, 2020
Jyun-Ao Lin(Xiamen University Malaysia,Malaysia)	Feb. 14-Mar.22, 2020
Hoeteck Wee (École normale supérieure, France)	Jan. 1-7, 2020
Hubert Chan (The University of Hong Kong, China)	Dec. 23, 2019-Jan. 3, 2020
Elaine Shi (Cornell University, USA)	Dec. 17, 2019-Jan. 10, 2020
Min-Hsiu Hsieh (University of Technology Sydney, Australia)	Nov. 29, 2019-Jan. 25, 2020

Yuyi Wang (ETH Zürich, Switzerland)	Oct. 28-Nov. 7, 2019
Takashi Yamakawa (NTT, Japan)	Oct. 6-Nov. 5, 2019
Han-Hsuan Lin (UTCS,USA)	Aug. 19-Sep. 4, 2019
Hong-Sheng Zhou (Virginia Commonwealth University,USA)	Jul. 2-4, 2019
Penghui Yao (Nanjing University, China)	Feb. 17-28, 2019
Shota Yamada (National Institute of Advanced Industrial Science and Technology)	Apr. 14-21, 2019
Angela Capel Cuevas (ICMAT-Institute of Mathematical Sciences, Spain)	Jun. 25-Sep. 14, 2018
Chen-Fu Chiang (SUNY Polytechnic Institute, USA)	Jun. 6, 2018
Somitra Kumar Sanadhya (IIT Ropar, India)	May 15-Jul. 19, 2018
Amit Kumar Chauhan (IIT Ropar, India)	May 15-Jul. 29, 2018
Min-Hsiu Hsieh (University of Technology Sydney, Australia)	Apr. 2, 2018
Yingkai Ouyang (National University of Singapore, Singapore)	Mar. 14-22, 2018
Zvika Brakersk (Weizmann Institute of Science, Israel)	Feb. 15-24, 2018
Elette Boyle (IDC Herzliya, Israel)	Feb. 15-24, 2018
Yicong Zheng (National University of Singapore, Singapore)	Dec. 3-9, 2017
Danny Chen (University of Notre Dame, USA)	Nov. 26-Dec. 4, 2017
Kharchenko Natalia (Universite Pierre et Marie Curie, France)	Oct. 1-Nov. 30, 2017
Masahito Hayashi (Nagoya University, Japan)	Aug. 27-Sep. 1, 2017
Hao-Chung Cheng (University of Technology Sydney, Australia)	Jul. 10-14, 2017
Yicong Zheng (National University of Singapore, Singapore)	May 7-14, 2017
Xiongfeng Ma (TsingHua University, Beijing, China)	Feb. 13-19, 2017
Min-Hsiu Hsieh (University of Technology Sydney, Australia)	Jan. 25-Feb. 16, 2017
Vassilis Zikas (Rensselaer Polytechnic Institute, New York, USA)	Jan. 5-13, 2017
Luca Trevisan (University of California, Berkeley, USA)	Jan. 3-9, 2017
Cedric Lin (University of Maryland, USA)	Dec. 25, 2016-Jan. 6, 2017
Prabhanjan Ananth (University of California, Los Angeles, USA)	Dec. 5-16, 2016
Marios Georgiou (City University of New York, USA)	Oct. 31-Nov. 6, 2016
Ilan Komargodsk (Weizmann Institute of Science, Israel)	Oct. 1-15, 2016
Mark Bun (Harvard University, USA)	May 16-25, 2016
Yuichi Yoshida (National Institute of Informatics, Japan)	May 16-18, 2016
Georgios Piliouras (Singapore University of Technology and Design, Singapore)	May 15-18, 2016
Anthony Man-Cho, So (The Chinese University of Hong Kong, Hong Kong)	Mar. 25-28, 2016
Shengyu Zhang (The Chinese University of Hong Kong, Hong Kong)	Mar. 25-28, 2016
Xin Han (Dalian University of Technology, China)	May 13-17, 2016
Ran Cohan (Bar-Ilan University, Israel)	May 01-10, 2016
Mark Simkin (Saarland University, Germany)	Mar. 01-10, 2016
Yuval Ishai (Technion, Israel and UCLA, USA)	Feb. 29-Mar. 10, 2016
Hsin-Hao Su (Massachusetts Institute of Technology, USA)	Dec. 23-26, 2015
Meng-Tsung Tsai (Rutgers University, USA)	Dec. 17-24, 2015
Nai-Hui, Chia (Penn State University, USA)	Dec. 16-23, 2015
Christopher Williamson (Chinese University of Hong Kong)	Dec. 6-8, 2015
Luca Trevisan (University of California, Berkeley, USA)	Dec. 5-15, 2015
Gang Xu (Beijing University of Posts and Telecommunications, China)	Dec. 1-9, 2015
Hao-Chung Cheng (University of Technology Sydney, Australia)	Nov. 27-Dec. 2, 2015
Thomas Steinke (Harvard University, USA)	Aug. 22-27, 2015
Siyao Guo (CUHK, Hong Kong)	Apr. 20-25, 2015
Yeong-Cherng Liang (NCKU, Taiwan)	Apr. 13-15, 2015

Muthuramakrishnan Venkitasubramaniam (Rochester University, USA)	Mar. 8-14, 2015
Lior Seeman (Cornell University, USA)	Dec. 18-23, 2014
Yitong Yin (Nanjing University, China)	Dec. 15-25, 2014
Fang Song (University of Waterloo, Canada)	Dec. 6-13, 2014
Arno Mittelbach (CASED, Germany)	Dec. 3-6, 2014
Christina Brzuska (Microsoft Research Cambridge, UK)	Dec. 3-6, 2014
Andrej Bogdanov (CUHK, Hong Kong)	Nov. 18-23, 2014
Chung-Chih Li (Illinois State University, USA)	Jul. 9, 2014
Hsin-Hao Su (University of Michigan, USA)	Jan. 25-28, 2014
Sze-Ming Sherman Chow (CUHK, Hong Kong)	Jan. 9-15, 2014
David Xiao (CNRS, France)	Nov. 20-23, 2013

TALKS

Complexity theory for quantum-input decision problems and computational hardness in quantum cryptography

SG Crypto Workshop, National University of Singapore, Singapore	1/5/2026

Complexity Theory for Quantum Promise Problems

YITP Workshop Kyoto Quantum Crypto 2, Kyoto University, Japan	10/22/2025
AS Conference, Academia Sinica, Taiwan	07/03/2025

On the Impossibility of General Parallel Fast-forwarding of Hamiltonian Simulation

Department of Electrical Engineering, National Taiwan University, Taiwan	02/26/2024
Department of Computer Science & Information Engineering, National Taiwan University, Taiwan	12/22/2023
National Center for Theoretical Sciences, National Cheng Kung University, Taiwan	05/22/2023
Computer and Information Network Center, National Chung Hsing University, Taiwan	07/04/2023

Post-Quantum Cryptography: The Key to Resisting Quantum Attack (Popular Science Talk)

Aerospace technology research and development center,Chung Yuan Christian University, Taiwan	09/07/2022

Theoretical Aspects of Post-Quantum Cryptography

Cybersecurity Center of Excellence (CCOE), Taiwan	07/08/2022

Potential and Limit of Quantum Computing (Popular Science Talk)

Post-quantum Cryptography Forum, Taiwan	01/14/2022

A personal view on quantum computation and cryptography and an interactive discussion

Institute of Statistical Science, Academia Sinica, Taiwan	10/18/2021

Compressed Oracle as a Quantum Lazy Sampling Technique

Workshop on Quantum Techniques for Provable Security (QUIQUES), Croatia (Virtual)	10/17/2021

Tight Quantum Time-Space Tradeoffs for Function Inversion
International Conference on the 16th TQC 2021, Latvia (Virtual) 07/07/2021
The Second Kyoto Workshop on Quantum Information, Computation, and Foundation (QICF21), Japan (Virtual) 09/14/2021

On the Power of Hybrid Classical and Low-depth Quantum Computation
Institute of Network Engineering Seminar, NYCU, Taiwan 05/05/2021
Department of Computer Science Seminar, NTHU, Taiwan 04/28/2021
Joint CQSE-NCTS-CASTS-CTP Seminar, NTU, Taiwan 04/16/2021
Workshop on Quantum Science and Technology (QST), Taiwan 08/20/2020

How well can a classical client delegate quantum computation?
Pengcheng Lab Quantum Computing Research Center, China 07/17/2020
Centre for Quantum Software and Information, UTS, Australia 06/02/2020

Quantum Cryptography and Quantum Complexity
Quantum Information Science (QIS) and Mathematics, Taiwan 10/17/2020

Meeting the Quantum Era — A Brief Talk on the Potential and Limits of Quantum Computing (Popular Science Talk)
Institute of Information Science, Academia Sinica, Taiwan 10/26/2019

TCS, Crypto and Quantum
Institute of Information Science, Academia Sinica, Taiwan 11/29/2019

On the Hardness of Massively Parallel Computation
Lower Bounds in Cryptography, Bertinoro, Italy 07/08/2019
Department of Computer Science, Cornell University, USA 08/01/2019

On the Algorithmic Power of Spiking Neural Networks
AI forum 2019, National Chung Hsing University, Taiwan 04/26/2019

When Schrodinger meets Turing — Cryptography 2.0 in the Quantum Era (Popular Science Talk)
Department of Computer Science and Engineering, Yuan Ze University, Taiwan 03/29/2019
Prospect Talk Series for Popular Science, National Taiwan University, Taiwan 06/15/2018

Privacy Amplification against Active Quantum Adversaries and Quantum-Proof Non-Malleable Extractors
Department of Computer Science, University of Maryland, USA 03/06/2019

Intro to Pseudo-randomness
IISC-IACR School on Cryptology, Indian Institute of Science, Bangalore, India 01/04/2018

Randomness Extraction in the Quantum World
Workshop on The New Theory and Application in Cryptography, Sanya, China 12/14/2017
International Conference on Information Theoretic Security (ICITS) 2017, Hong Kong, China 12/01/2017

Computational Notions of Quantum Min-Entropy
Workshop on Quantum Algorithms and Complexity Theory, CQT, Singapore 02/27/2018
Workshop on Quantum Science and Technology, NCTS, Taipei, Taiwan 09/06/2017

General Randomness Amplification with Non-signaling Security
IIIS, Tsinghua University, Beijing, China 06/02/2017
Department of Computer Science, Cornell University, USA 04/20/2017
CQT CS Talk, Centre for Quantum Technologies, Singapore 02/22/2017
Winter'17 Quantum Day @ Portland, Portland, USA 01/13/2017

True Randomness from Minimal Assumptions
Department of Computer and Electrical Engineering and Computer Science, FAU, USA 03/26/2017
Institute for Interdisciplinary Information Sciences, Beijing, China 12/23/2016
Workshop on Mathematics of Information -Theoretic Cryptography 2016, Singapore 09/29/2016
Trustworthy Quantum Information (TYQI) 2016, Shanghai, China 06/30/2016

Computational Notions of Quantum Entropy
Tsinghua-Cornell Workshop on Security and Cryptography, Beijing, China 12/22/2016
The Quantum-Safe Crypto Workshop 2016, Singapore 10/03/2016

Randomness Extractors beyond the Classical Setting
Shanghai University of Finance and Economics (SUFE), 2016, Shanghai, China 06/18/2016
Workshop on Spectral Graph Theory and Its Applications 2015, Taipei, Taiwan 12/09/2015

Cryptography for Parallel RAM from Indistinguishability Obfuscation
DIMACS/MACS Workshop on Cryptography for the RAM Model of Computation(DIMACS) 2016, Boston, USA 06/09/2016

Toward Cryptography for Modern Parallel Architecture
Asian Association for Algorithms and Computation (AAAC) 2016, Taipei, Taiwan 05/16/2016

No-signalling Secure Physical Randomness Extractors, or Randomness Amplification for Arbitrary Weak Sources

Workshop on Quantum Nonlocality, Causal Structures and Device-independent Quantum Information 2015, Tainan, Taiwan 12/14/2015

Randomness Extraction beyond the Classical World
International Conference on Quantum Cryptography (QCrypt) 2015, Tokyo, Japan 09/29/2015

Randomness Extractors: from Classical to Quantum Worlds
University of Michigan, International Workshop: Trustworthy Quantum Information 06/29/2015

Multi-Source and Network Extractors in the Presence of Quantum Side Information
National Taiwan University, CQSE-CASTS Seminar 05/01/2015
Institute for Quantum Computing, University of Waterloo, Seminar 10/23/2014

Physical Randomness Extractors: Generating Random Numbers with Minimal Assumptions
National Cheng Kung University, Seminar 04/16/2015
Institute of Statistical Science, Academia Sinica, Seminar 05/12/2014
National Taiwan University, CASTS Seminar 05/09/2014
Simons' Institute, Quantum Gathering 04/09/2014

Computation-Trace Indistinguishability Obfuscation and its Applications
Microsoft Research, London 04/07/2015

Tight Parallel Repetition Theorems for Public-Coin Arguments using KL-divergence
Theory of Cryptography Conference (TCC) 2015, Warsaw, Poland 03/25/2015

Statistically-secure ORAM with $\tilde{O}(\log^2 n)$ Overhead
National Cheng Kung University, Tainan, Taiwan 03/06/2015
National Tsing Hua University, Seminar 12/17/2014
ASIACRYPT Conference 2014 12/10/2014
National Chung Hsing University, Seminar 05/16/2014
University of California Santa Barbara, Colloquium 02/18/2014

(Cryptography) Research in Taiwan
International View of the State-of-the-Art of Cryptography and Security and its Use in Practice (VI), join presentation with Dr. Bo-Yin Yang 12/12/2014

Interactive Coding, Revisited
NYU, Crypto Seminar 12/03/2013
MSR-Silicon Valley Theory, Seminar 08/26/2013
University of Maryland, Crypto Seminar 07/17/2013

On the Lattice Smoothing Parameter Problem
- Purdue University Theory Seminar 06/18/2013
- CCC'13 06/07/2013

Can Theories be Tested? A Cryptographic Treatment of Forecast Testing
- DIMACS Workshop on Current Trends in Cryptology 05/01/2013
- Cornell Theory Seminar 04/01/2013

On the (Im)Possibility of Tamper-Resilient Cryptography: Using Fourier Analysis in Computer Viruses
- IBM Research Cryptography Seminar 09/17/2012
- NYU Cryptography Seminar 09/12/2012

Recent Progress on Parallel Repetition
- University of Michigan Theory Seminar 03/11/2013
- NYU Theory Seminar 09/13/2012
- Academia Sinica IIS Seminar 03/28/2012
- University of Connecticut CSE Colloquia 03/12/2012
- National Taiwan University 12/30/2011

The Knowledge Tightness of Parallel Zero-Knowledge
- TCC'12 03/21/2012

Chernoff-Hoeffding Bounds for Markov Chains: Generalized and Simplified
- STACS'12 03/03/2012

The Randomness Complexity of Parallel Repetition
- BU Security Seminar 02/28/2012
- Penn-State University CSE Seminar 01/19/2012
- FOCS'11 10/25/2011
- Cornell Theory Seminar 09/26/2011

Memory Delegation
- CRYPTO'11 08/15/2011
- Harvard Theory of Computation Seminar 04/22/2011

Improved Delegation of Computation Using Fully Homomorphic Encryption
- New York Crypto Day 10/14/2010
- CRYPTO'10 08/18/2010
- Verifiable Computation Workshop, MIT 08/11/2010

Security Amplification via Parallel Repetition
- Cornell Cryptography Seminar 03/17/2010
- Georgia Tech ARC Colloquium 02/15/2010

Parallel Repetition Theorems for Interactive Arguments
- TCC'10 02/09/2010
- MIT CIS/Microsoft Seminars 12/11/2009
- Brown Theory Lunch 12/08/2009

Tight Bounds for Hashing Block Sources
Harvard Theory of Computation Seminar 11/10/2008
Approx-Random'08 08/25/2008

S-t Connectivity on Digraphs with a Known Stationary Distribution
CCC'07 06/15/2007

An Optimal Algorithm for the Maximum-Density Segment Problem
ESA'03 09/18/2003