

Kai-Min Chung

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Nankang, Taipei 11529, Taiwan

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CURRENT POSITION

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

PREVIOUS POSITION

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*
- Visiting student at University of California, Berkeley Sep. 2007 – Jun. 2008

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, Complexity Theory

HONORS AND AWARDS

Institute of Information and Computing Machinery 2017
Award for "K. T. Li Young Researcher Award"

Foundation for the Advancement of Outstanding Scholarship 2017
Award for "The Young Scholars' Creativity Award"

Academia Sinica 2016 Career Development Award 2016
Research Theme: Crypto for Modern Cloud Architecture and Post-quantum Crypto against Quantum Side-Info

Simons-Berkeley Research Fellowships in Cryptography 2015
Award for collaborative research in theoretical computer science and related fields

Li Foundation Heritage Prize	2014
Award for "Excellence in Creativity"	
Simons Postdoctoral Fellowship	2010
Award for Postdocs in Mathematics, Theoretical Physics, and Theoretical Computer Science.	
Best Student Paper Award	2010
In the 7th IACR Theory of Cryptography Conference (TCC)	

SYNERGISTIC ACTIVITIES

General Chair

- 19th International Conference on the Theory and Practice of Public-Key Cryptography (PKC 2016)

Organizing Committee

- 16th Asian Quantum Information Science Conference (AQIS 2016)

Organizer

- Theory Day in Taiwan 2017-A, B, C
- Theory Day in Taiwan 2016-A, B

Program Committee

- 38th Annual International Conference on the Theory and Applications of Cryptographic Techniques (EUROCRYPT 2019)
- 29th International Symposium on Algorithms and Computation (ISAAC 2018)
- National Conference of Theoretical Computer Science (NCTCS 2018)
- 8th International Conference on Quantum Cryptography (QCrypt 2018)
- 21st International Conference on the Theory and Practice of Public-Key Cryptography (PKC 2018)
- 23rd Annual International Conference on the Theory and Application of Cryptology and Information Security (Asiacrypt 2017)
- 15th IACR Theory of Cryptography Conference (TCC2017)
- 32nd Computational Complexity Conference (CCC 2017)
- 14th IACR Theory of Cryptography Conference-B (TCC2016)
- 21st Annual International Conference on the Theory and Application of Cryptology and Information Security (ASIACRYPT 2015)
- 26th International Symposium on Algorithms and Computation (ISAAC 2015)
- 12th Theory of Cryptography Conference (TCC 2015)
- 11th Theory of Cryptography Conference (TCC 2014)
- 20th Annual International Conference on the Theory and Application of Cryptology and Information Security (ASIACRYPT 2014)

- 33rd Annual International Cryptology Conference (CRYPTO 2013)

Journal Refereeing

IEEE Transactions on Neural Networks, SIAM Journal on Computing 2014 & 2011, Algorithmica 2013, ACM Transactions on Computation Theory 2011, Journal of Cryptology 2010

Conference Refereeing

ITCS 2015 & 2014, FOCS 2015 & 2014 & 2012, STOC 2014 & 2007, CRYPTO 2014 & 2011 & 2009, Eurocrypt 2016 & 2014, ICALP 2014 & 2012, TCC 2013 & 2012 & 2011, CCC 2015 & 2013 & 2012, Asiacrypt 2012 & 2011, RANDOM 2011,

GRANTS

Crypto for Modern Cloud Architecture	2017-2020
Funded by Ministry of Science and Technology, Taiwan. NTD 3,278,000 (No: 106-2628-E-001-002-MY3)	
The Young Scholars' Creativity Award	2017-2019
Funded by Foundation for the Advancement of Outstanding Scholarship, Taiwan. NTD 1,500,000	
Academia Sinica 2016 Career Development Award	2016-2020
Funded by Academia Sinica, Taiwan. NTD 5,830,000	
Li Foundation Heritage Prize for "Excellence in Creativity"	2014-2015
Funded by The Li Foundation, Inc., USA. NTD 1,200,000	
Advancing New Age Cryptography—New Assumptions, Tasks, and Challenges	2014-2017
Funded by Ministry of Science and Technology, Taiwan. NTD 2,502,000 (No: 103-2221-E-001-022-MY3)	
Short-term Abroad Research Program	Jan.-Dec., 2015
Funded by Ministry of Science and Technology, Taiwan. NTD 357,800	

PATENTS

Rafael Pass, Elette Boyle, Kai-Min Chung. 2014. Oblivious Parallel Random Access Machine System and Methods.

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

Yaoyun Shi, Kai-Min Chung, 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

PUBLICATIONS

[43] *On the Complexity of Simulating Auxiliary Input*

Yi-Hsiu Chen, Kai-Min Chung, and Jyun-Jie Liao

To appear in the 37th Annual International Conference on the Theory and Applications of Cryptographic Techniques (EUROCRYPT), 2018.

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- [42] *On the Depth of Oblivious Parallel RAM*
T-H. Hubert Chan, Kai-Min Chung, Elaine Shi
In proceedings of the 23rd Annual International Conference on the Theory and Applications of Cryptology and Information Security (**ASIACRYPT**), 2017.
- [41] *Computational Notions of Quantum Min-Entropy*
Yi-Hsiu Chen, Kai-Min Chung, Ching-Yi Lai, Salil Vadhan and Xiaodi Wu
In proceedings of the 7th International Conference on Quantum Cryptography (**QCrypt**), 2017.
- [40] *General Randomness Amplification with Non-signaling Security*
Kai-Min Chung and Yaoyun Shi and Xiaodi Wu
In proceedings of the 20th Annual Conference on Quantum Information Processing (**QIP**), 2017.
- [39] *Delegating RAM Computations with Adaptive Soundness and Privacy*
Prabhanjan Ananth and Yu-Chi Chen and Kai-Min Chung and Huijia Lin and Wei-Kai Lin
In proceedings of the 14th Theory of Cryptography Conference (**TCC-B**), 2016.
- [38] *Cryptography for Parallel RAM via Indistinguishability Obfuscation*
Yu-Chi Chen and Sherman S. M. Chow and Kai-Min Chung and Russell W. F. Lai and Wei-Kai Lin and Hong-Sheng Zhou
In proceedings of the 7th Innovations in Theoretical Computer Science (**ITCS**), 2016.
- [37] *Oblivious Parallel RAM and Applications*
Elette Boyle and Kai-Min Chung and Rafael Pass
In proceedings of the 13th Theory of Cryptography Conference (**TCC**), 2016.
- [36] *Large-Scale Secure Computation: Multi-party Computation for (Parallel) RAM Programs*
Elette Boyle and Kai-Min Chung and Rafael Pass
In proceedings of the 35th International Cryptology Conference (**Crypto**), 2015.
- [35] *Constant-Round Concurrent Zero-knowledge from Indistinguishability Obfuscation*
Kai-Min Chung and Huijia Lin and Rafael Pass
In proceedings of the 35th International Cryptology Conference (**Crypto**), 2015.
- [34] *Parallel Repetition for Entangled k -player Games via Fast Quantum Search*
Xiaodi Wu and Kai-Min Chung and Henry S. Yuen
In proceedings of the 30th Computational Complexity Conference (**CCC**), 2015.
- [33] *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.
- [32] *From Weak to Strong Zero-Knowledge and Applications*
Kai-Min Chung and Edward Lui and Rafael Pass
In proceedings of the 12th Theory of Cryptography Conference (**TCC**), 2015.
- [31] *Statistically-secure ORAM with $\tilde{O}(\log^2 n)$ Overhead*
Kai-Min Chung and 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.
- [30] *On the Impossibility of Cryptography with Tamperable Randomness*
Per Austrin and Kai-Min Chung and Mohammad Mahmoody and Rafael Pass and Karn Seth

- In proceedings of the 34th International Cryptology Conference (**CRYPTO**), 2014.
To appear in **Algorithmica**
- [29] *Distributed Algorithms for the Lovasz Local Lemma and Graph Coloring*
Kai-Min Chung and Seth Pettie and Hsin-Hao Su
In proceedings of the 2014 ACM Symposium on Principles of Distributed Computing (**PODC**), 2014.
- [28] *Physical Randomness Extractors: Generating Random Numbers with Minimal Assumptions*
Kai-Min Chung and 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.
- [27] *On Extractability (a.k.a. Differing-Inputs) Obfuscation*
Elette Boyle and Kai-Min Chung and Rafael Pass
In proceedings of the 11th IACR Theory of Cryptography Conference (**TCC**), 2014.
- [26] *4-Round Resettably-Sound Zero Knowledge*
Kai-Min Chung and Rafail Ostrovsky and Rafael Pass and Muthuramakrishnan Venkatasubramanian and Ivan Visconti
In proceedings of the 11th IACR Theory of Cryptography Conference (**TCC**), 2014.
- [25] *Interactive Coding, Revisited*
Kai-Min Chung and Rafael Pass and Sidharth Telang
In proceedings of the 54th Annual IEEE Symposium on Foundations of Computer Science (**FOCS**), 2013
- [24] *Constant-Round Concurrent Zero Knowledge From P-Certificates*
Kai-Min Chung and Huijia Lin and Rafael Pass
In proceedings of the 54th Annual IEEE Symposium on Foundations of Computer Science (**FOCS**), 2013
- [23] *Simultaneous Resettability from One-Way Functions*
Kai-Min Chung and Rafail Ostrovsky and Rafael Pass and Ivan Visconti
In proceedings of the 54th Annual IEEE Symposium on Foundations of Computer Science (**FOCS**), 2013
- [22] *Why Simple Hash Functions Work: Exploiting the Entropy in a Data Stream*
Kai-Min Chung and Michael Mitzenmacher and Salil P. Vadhan
Theory of Computing, 9(30):897–945, 2013
- [21] *Functional Encryption from (Small) Hardware Tokens*
Kai-Min Chung and 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 and Rafael Pass and Karn Seth
SIAM Journal on Computing, 45(2):415-458, May 2016 In proceedings of the 45th ACM Symposium on Theory of Computing (**STOC**), 2013.
- [19] *On the Lattice Smoothing Parameter Problem*
Kai-Min Chung and Daniel Dadush and Feng-Hao Liu and Chris Peikert
In proceedings of the 28nd Annual IEEE Conference on Computational Complexity (**CCC**), 2013.

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- [18] *Parallel Repetition Theorems for Interactive Arguments*
Kai-Min Chung and Rafael Pass
SIGACT News, Complexity Theory Column, Volume 44 Issue 1, March 2013.
- [17] *Randomness-Dependent Message Security*
Eleanor Birrell and Kai-Min Chung and Rafael Pass and Sidharth Telang
In proceedings of the 10th IACR Theory of Cryptography Conference (**TCC**), 2013.
- [16] *A Cryptographic Treatment of Forecast Testing*
Kai-Min Chung and 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 and Huijia Lin and 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 and 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 and Henry Lam and 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 and Yael Tauman Kalai and 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 and Sherman S.M. Chow and 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 and 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 and Feng-Hao Liu and 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
Best Student Paper ; invited to Journal of Cryptology.
- [6] *AMS Without 4-Wise Independence on Product Domains*
Vladimir Braverman and Kai-Min Chung and Zhenming Liu and Michael Mitzenmacher and Rafail Ostrovsky

- In the 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 and 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 and Wei-Chun Kao and 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 and Wei-Chun Kao and Chia-Liang Sun and Li Lun Wang, Chih-Jen Lin
In proceedings of International Conference on Neural Information Processing (**ICONIP**), 2002
Neural Computation, 15:2654-2681, 2003.

• POSTER

- [4] *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 The 21st Annual Conference on Quantum Information Processing (**QIP**), 2018.
- [3] *On Statistically-Secure Quantum Homomorphic Encryption*
Ching-Yi Lai and Kai-Min Chung
In The 21st Annual Conference on Quantum Information Processing (**QIP**), 2018.
- [2] *Space-efficient Classical and Quantum Algorithms for the Shortest Vector Problem*
Yanlin Chen, Kai-Min Chung, and Ching-Yi Lai
In The 21st Annual Conference on Quantum Information Processing (**QIP**), 2018.
- [1] *Computational Notions of Quantum Min-Entropy*
Yi-Hsiu Chen, Kai-Min Chung, Ching-Yi Lai, Salil Vadhan and Xiaodi Wu
In The 20th Annual Conference on Quantum Information Processing (**QIP**), 2017.

• MANUSCRIPTS

[2] *A Simple ORAM*

Kai-Min Chung and Rafael Pass
Manuscript, 2014

[1] *Unprovable Security of Two-Message Zero-Knowledge*

Kai-Min Chung and Edward Lui and Mohammad Mahmoody and Rafael Pass
Manuscript, 2013

RESEARCH ADVISING

Postdoctoral Fellows

Ching-Yi Lai

Sep. 2015-present

- Ph.D., Electrical Engineering, University of Southern California, Los Angeles
- Research on Quantum Information Theory

Yu-Chi Chen

Jan. 2014-Jul. 2017

- Ph.D., Computer Science, National Chung Hsing University
- Research on Cryptography

Han-Hsuan Lin

Oct. 2016-Nov. 2016

- Ph.D., Physics, Massachusetts Institute of Technology
- Research on Quantum Information

Research Assistants

Kuan-Yi Ho

Dec. 2017-present

- B.S., Electrical Engineering, National Taiwan University
- Research on Algorithms and Complexity

Chun-Peng Chang

Sep. 2017-Apr. 2018

- Ph.D., Physics, National Tsing Hua University
- Research on Quantum Key Distribution Protocols

Jyun-Jie Liao

Nov. 2016-present

- B.S., Undergraduate Honors Program of Electrical Engineering and Computer Science, National Chiao Tung University
- Research on Computational Complexity and Algorithms

Yin-Hsun Huang

Nov. 2016-Jul. 2017

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

Chi-Ning Chou

Jun. 2016-Jul. 2017

- B.S., Computer Science, National Taiwan University
- Research on Computational Complexity and Algorithms

Yan-Lin Chen

Jul. 2016-present

- M.S., Electrical Engineering, National Taiwan University
- Research on Quantum Information and Cryptography

Tsung-Hsuan Hung

Jul. 2015-Jan. 2017

- M.S., Mathematical Modeling and Scientific Computing, National Chiao Tung University
- Research on Cryptography

Wei-Kai Lin

Nov. 2014-Jul. 2016

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

Graduate Students**I-Hung Hsu**

Sep. 2017-present

- M.S. Student, Department of Mathematics, National Tsing Hua University
- Research on Algorithm and Complexity

Tsung-Hsuan Hung

Feb.. 2017-present

- Ph.D. student, Computer Science and Information Engineering, National Taiwan University
- Research on Cryptography

Hao Chung (co-advised)

Jul. 2016-present

- M.S. Student, Graduate Institute of Communication Engineering, National Taiwan University
- Research on Cryptography

Chiao-Hsun Wang

Sep. 2015-Aug. 2017

- M.S. Student, Physics Department, National Taiwan University
- Research on Quantum Cryptography

Yan-Lin Chan (co-advised)

May 2014-Jun. 2016

- M.S. Student, Electrical Engineering, National Taiwan University
- Research on Quantum Information and Cryptography

Kai-Bin Huang (short-term co-advised)

May 2014-Dec. 2014

- Ph.D. student, Computer Science, National Chengchi University
- Research on Cryptography

Undergraduate Students**Kuan-Yi Ho**

Jul. 2016-Jul. 2017

- Electrical Engineering, National Taiwan University
- Research on Algorithm and Complexity

Tun-Yi Chang

Feb. 2016-present

- B.S., Department of Physics, National Taiwan University

Chi-Ning Chou (summer intern)

Jul. 2015-Aug. 2015

- Computer Science, National Taiwan University
- Research on Cryptography

VISITORS HOSTED

Short Term Visitors

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. 03-09, 2017
Danny Chen (University of Notre Dame, USA)	Nov. 26-Dec. 04, 2017
Kharchenko Natalia (Universite Pierre et Marie Curie, France)	Oct. 01-Nov. 30, 2017
Masahito Hayashi (Nagoya University, Japan)	Aug. 27-Sep. 01, 2017
Hao-Chung Cheng (University of Technology Sydney, Australia)	Jul. 10-14, 2017
Yicong Zheng (National University of Singapore, Singapore)	May 07-14, 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. 05-13, 2017
Luca Trevisan (University of California, Berkeley, USA)	Jan. 03-09, 2017
Cedric Lin (University of Maryland, USA)	Dec. 25, 2016-Jan. 06, 2017
Prabhanjan Ananth (University of California, Los Angeles, USA)	Dec. 05-16, 2016
Marios Georgiou (City University of New York, USA)	Oct. 31-Nov. 06, 2016
Ilan Komargodsk (Weizmann Institute of Science, Israel)	Oct. 01-15, 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)
David Xiao (CNRS, France)

Jan. 9-15, 2014
Nov. 20-23, 2013

TALKS

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

IIS, 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 SourcesHarvard Theory of Computation Seminar
Approx-Random'0811/10/2008
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