Lijie Chen

Curriculum Vitae

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Position

2022-Now Miller Institute for Basic Research in Science, University of California, Berkeley.

Miller Postdoctoral Fellow, hosted by Avishay Tal and Umesh Vazirani

Education

2017–2022 **EECS**, Massachusetts Institute of Technology, Cambridge.

S. M. and Ph.D. in Electrical Engineering and Computer Science, advised by Ryan Williams

S. M. thesis: Fine-Grained Complexity Meets Communication Complexity

Ph.D. thesis: Better Hardness via Algorithms, and New Forms of Hardness versus Randomness

2013–2017 **Institute for Interdisciplinary Information Sciences**, *Tsinghua University*, Beijing. Bachelor of Engineering in Computer Science and Technology

Research Interests

- Computational Complexity
 Pseudorandomness
 Fine-Grained Complexity
- Quantum Computing/Complexity
 Algorithm Design
 Cryptography

Visiting and Internship

2024 Spring Simons Institute for the Theory of Computing, Berkeley.

Vising Scientist. Quantum Algorithms, Complexity, and Fault Tolerance.

2023 Spring Simons Institute for the Theory of Computing, Berkeley.

Research Fellow. Meta-Complexity.

2021 Summer IBM T. J. Watson Research Center, New York (remote).

PhD Quantum Research Summer Intern hosted by Ramis Movassagh.

2020 Summer Google Inc., Mountain View (remote).

Research Intern hosted by Ravi Kumar.

2020 Winter Weizmann Institute of Science, Rehovot.

(Jan - Feb) Visiting Student of Guy Rothblum.

2018 Fall Simons Institute for the Theory of Computing, Berkeley.

Visiting Graduate Student. Lower Bounds in Computational Complexity.

2016 Spring **EECS**, *Massachusetts Institute of Technology*, Cambridge.

Visiting Student, advised by Scott Aaronson.

Selected Awards and Scholarships

- 2023 MIT George M. Sprowls PhD Thesis in Computer Science Award
- 2022 EATCS Distinguished Dissertation Award 2022
- 2022 Miller Research Fellowship
- 2020 IBM Fellowship
- 2019 FOCS 2019 Best Student Paper
- 2019 STOC 2019 Best Student Paper
- 2017 MIT Akamai Presidential Graduate Fellowship
- 2017 International Collegiate Programming Contest, World Final, 6th place
- 2016 Tsinghua Top-Grade Scholarship (10 best undergraduate students a year)
- 2013 International Olympiad in Informatics, Gold model, 1st place

Special Issue Invitations

Invited journal articles considered to be among the top 5-10 papers in a given conference: FOCS 2021, STOC 2021, STOC 2020, FOCS 2019, FOCS 2019, CCC 2018, FOCS 2017, CCC 2017

Professional Activities and Service

Committee

Program ITCS 2022, FOCS 2022, CCC 2023

Conference FOCS, STOC, SODA, CCC, ITCS, ICALP, QIP, TCC, IPEC, COLT, RANDOM, ISAAC

Reviewing

Journal Journal of the ACM, Theory of Computing, Quantum, Algorithmica, Izvestiya: Math-Reviewing ematics, Journal of Privacy and Confidentiality

Leadership Co-Organizer of FOCS Workshop on New Directions in Derandomization, 2022

Co-Editor of the SICOMP special issue of FOCS 2022 Activities

Co-Organizer of the Meta-Complexity Program Weekly Seminar at Simons Institute, 2023 Co-Organizer of FOCS Workshop on Recent Developments in Explicit Constructions, 2023

Selected Publications

Published 49 conference papers and 9 journal papers (3 best student paper awards) including 20 papers in STOC and FOCS and 2 papers in Journal of the ACM (the top-tier conferences/journal in theoretical computer science). The full list of the publications can be found at the end of the CV.

Derandomization

ACM Guest Column: New ways of studying the BPP= P conjecture.

SIGACT

Lijie Chen, Roei Tell.

News

- FOCS 2023 Derandomization vs Refutation: A Unified Framework for Characterizing Derandomization. Lijie Chen, Roei Tell, Ryan Williams.
- Hardness vs Randomness, Revised: Uniform, Non-Black-Box, and Instance-Wise. **FOCS 2021** Lijie Chen, Roei Tell. Invited to the SICOMP Special Issue for FOCS 2021
- **STOC 2021** Simple and fast derandomization from very hard functions: Eliminating randomness at almost no cost. Lijie Chen, Roei Tell.

Circuit Lower Bounds from Algorithms

- FOCS 2020 Almost Everywhere Circuit Lower Bounds from Non-Trivial Derandomization. Lijie Chen, Xin Lyu, Ryan Williams.
- Strong Average-Case Circuit Lower Bounds from Non-trivial Derandomization. Lijie Chen, Hanlin Ren. Invited to the SICOMP Special Issue for STOC 2020
- **FOCS 2019** Efficient Construction of Rigid Matrices Using an NP Oracle. Josh Alman, Lijie Chen. Machtey Award (Best Student Paper), Invited to the SICOMP Special Issue for FOCS 2019
- **FOCS 2019** Non-deterministic Quasi-Polynomial Time is Average-case Hard for ACC Circuits. Lijie Chen. Invited to the SICOMP Special Issue for FOCS 2019

Hardness Magnification

- Journal of Beyond Natural Proofs: Hardness Magnification and Locality.
- **ACM 2022** Lijie Chen, Shuichi Hirahara, Igor Oliveira, Jan Pich, Ninad Rajgopal, Rahul Santhanam.
- **FOCS 2019** Hardness Magnification for all Sparse NP Languages. Lijie Chen, Ce Jin, Ryan Williams.
- Bootstrapping Results for Threshold Circuits "Just Beyond" Known Lower Bounds. **STOC 2019** Lijie Chen, Roei Tell. Danny Lewin Best Student Paper Award

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FOCS 2023 Polynomial-Time Pseudodeterministic Construction of Primes.

Explicit Lijie Chen, Zhenjian Lu, Igor C. Oliveira, Hanlin Ren, Rahul Santhanam.

Construction

STOC 2021 Almost Optimal Super-Constant-Pass Streaming Lower Bounds for Reachability.

Streaming Lijie Chen, Gillat Kol, Dmitry Paramonov, Raghuvansh Saxena, Zhao Song, Huacheng Yu.

Lower Bounds Invited to the SICOMP Special Issue for STOC 2021

CCC 2018 On The Hardness of Approximate and Exact (Bichromatic) Maximum Inner Product.

Fine-grained Lijie Chen.

complexity Invited to the Toc Special Issue for CCC 2018

CCC 2017 Complexity-Theoretic Foundations of Quantum Supremacy Experiments.

Quantum Scott Aaronson, Lijie Chen.

Supremacy Invited to the Toc Special Issue for CCC 2017

ITCS 2021 On Distributed Differential Privacy and Counting Distinct Elements.

Differential Lijie Chen, Badih Ghazi, Ravi Kumar, Pasin Manurangsi.

Privacy

SODA 2022 Truly Low-Space Element Distinctness and Subset Sum via Pseudorandom Hash Functions.

Low-space Lijie Chen, Ce Jin, Ryan Williams, Hongxun Wu.

algorithms

Teaching Experiences

2019 Fall Advanced Complexity Theory

Teaching Asistant, Massachusetts Institute of Technology

2017 Spring Introduction to Computational Complexity

Teaching Asistant, Tsinghua University

Selected Invited Academic Talks

2022 - Oct Background, and the new paradigm of non-black-box derandomization New Directions in Derandomization, FOCS 2022 Workshop

2022 - Apr New Directions in Derandomization: Overview Non-black-box Techs., Superfast Algorithms. DIMACS Workshop on Meta-Complexity, Barriers, and Derandomization, Rutgers University

2022 - Feb Derandomization and its connections throughout complexity theory, Part II
Theoretical Computer Science and Discrete Math Seminars, Institute for Advanced Study

2020 - Feb Strong Average-Case Circuit Lower Bounds from Non-trivial Derandomization
Theoretical Computer Science and Discrete Math Seminars, Institute for Advanced Study

Full Academic Talks

2023 - Nov The Iterative Win-Win Paradigm (Part 2): New Circuit Lower Bounds via Solving Range Avoidance

Recent Developments in Explicit Constructions, FOCS 2023 workshop

2023 - Nov Derandomization vs Refutation: A Unified Framework for Characterizing Derandomization FOCS 2023

2023 - Oct Derandomization vs Refutation: A Unified Framework for Characterizing Derandomization Oxford-Warwick Complexity Meetings, Online

2023 Polynomial-Time Pseudodeterministic Construction of Primes

2023 - May Cornell Junior Theorists' Workshop, Cornell University

2023 - Sept Berkeley Theory Lunch, UC Berkeley

2023 - Sept ARC Colloquium, Georgia Institute of Technology

2023 - Oct Theory Seminar, UT Austin

- 2023 June When Arthur Has Neither Random Coins Nor Time to Spare: Superfast Derandomization of Proof Systems

 STOC 2023
- 2023 May From Derandomization to Fiat-Shamir
 Minimal Complexity Assumptions for Cryptography workshop, Simons Institute
- 2023 Feb New Lower Bounds and Derandomization for ACC, and a Derandomization-centric View on the Algorithmic Method Lower Bounds, Learning, and Average-Case Complexity workshop, Simons Institute
- 2023 Jan New Lower Bounds and Derandomization for ACC, and a Derandomization-centric View on the Algorithmic Method Innovations in Theoretical Computer Science (ITCS 2023), MIT
- 2022 Nov Truly Low-Space Element Distinctness and Subset Sum via Pseudorandom Hash Functions Algorithms & Complexity Seminar, MIT
- 2022 Oct Background, and the new paradigm of non-black-box derandomization New Directions in Derandomization, FOCS 2022 workshop
- 2022 Sept Better Hardness via Algorithms, and New Forms of Hardness versus Randomness. Berkeley Theory Lunch, UC Berkeley
- 2022 July Extremely Efficient Constructions of Hash Functions, with Applications to Hardness Magnification and PRFs.

 Computational Complexity Conference (CCC 2022), University of Pennsylvania
- 2022 Apr New Directions in Derandomization: Overview Non-black-box Techs., Superfast Algorithms. DIMACS Workshop on Meta-Complexity, Barriers, and Derandomization, Rutgers University
- 2022 Feb Hardness vs Randomness, Revised: Uniform, Non-Black-Box, and Instance-Wise. FOCS 2021, Online
- 2022 Feb Derandomization and its connections throughout complexity theory, Part II IAS, Computer Science/Discrete Mathematics Seminar II
- 2022 Jan Quantum Merkle Trees. UC Berkeley Theory CS Seminar, Online
- 2021 Dec Hardness vs Randomness, Revised: Uniform, Non-Black-Box, and Instance-Wise. CMU Theory Seminar, Online
- 2021 Nov Hardness vs Randomness, Revised: Uniform, Non-Black-Box, and Instance-Wise. University of Washington Theory Seminar, Online
- 2021 July The quest for superfast derandomization. ICPCU Alumni Lecture Series, Online
- 2021 June Inverse-Exponential Correlation Bounds and Extremely Rigid Matrices from a New Derandomized XOR Lemma.
 STOC 2021, Online
- 2021 June Simple and Fast Derandomization from Very Hard Functions: Eliminating Randomness at Almost No Cost.

 STOC 2021, Online
- 2021 June Hardness vs Randomness, Revised: Uniform, Non-Black-Box, and Instance-Wise. Oxford-Warwick Complexity Meetings, Online
- 2021 Feb On Distributed Differential Privacy and Counting Distinct Elements.

 Boston Area Differential Privacy Seminar Series, Online
- 2021 Jan On Distributed Differential Privacy and Counting Distinct Elements. ITCS 2021, Online
- 2020 Nov Almost Everywhere Circuit Lower Bounds from Non-Trivial Derandomization. FOCS 2020, Online
- 2020 Sep Simple and fast derandomization from very hard functions: Eliminating randomness at almost no cost.
 SIGMA ICT CAS, Online

2020 - July	Oxford-Warwick Complexity Meetings, Online		
2020 - June	Strong Average-Case Lower Bounds from Non-trivial Derandomization. STOC 2020, Online		
2020 - June	Sharp threshold results for computational complexity. STOC 2020, Online		
2019 - 2020	Strong Average-Case Circuit Lower Bounds from Non-trivial Derandomization Theory Seminar, University of Chicago Lower Bounds in Computational Complexity Reunion, Simons Institute Theory Seminar, Weizmann Institute of Science Theory Seminar, Hebrew University of Jerusalem Theory Seminar, Technion - Israel Institute of Technology Theoretical Computer Science and Discrete Math Seminars, Institute for Advanced Study DIMAP Seminar, University of Warwick		
2019	Efficient Construction of Rigid Matrices Using an NP Oracle FOCS 2019		
2019	Non-deterministic Quasi-Polynomial Time is Average-case Hard for ACC Circuits FOCS 2019		
2019	On Algebraic and Number Theoretical Methods in Fine-Grained Complexity Nanjing University		
2019	Recent Developments on the Algorithmic Approach Towards Circuit Lower Bounds Tsinghua University		
2019	Recent Developments in Fine-Grained Complexity via Communication Complexity Tsinghua University		
2019	Stronger Connections Between Circuit Analysis and Circuit Lower Bounds, via PCP Proximity CCC 2019		
2019	Bootstrapping Results for Threshold Circuits "Just Beyond" Known Lower Bounds STOC 2019		
2019	Non-deterministic Quasi-Polynomial Time is Average-case Hard for ACC Circuits Theory Seminar of UT Austin Harvard TGINF CMU Theory Lunch		
2019	Classical Algorithms from Quantum and Arthur-Merlin Communication Protocols ITCS 2019		
2019	An Equivalence Class for Orthogonal Vectors SODA 2019		
2018	Recent Structure Lemmas for Depth-Two Threshold Circuits Simons Institute for the Theory of Computing		
2018	On The Hardness of Approximate and Exact (Bichromatic) Maximum Inner Product CCC 2018 Algorithms & Complexity Seminar, MIT		
2017	On The Power of Statistical Zero Knowledge FOCS 2017 Algorithms & Complexity Seminar, MIT		
2017	Complexity-Theoretic Foundations of Quantum Supremacy Experiments CCC 2017		
2016	Adaptivity vs Postselection ISAAC 2016		
2016	Pure Exploration of Multi-armed Bandit Under Matroid Constraints COLT 2016		

Journal Publications

9 Non-deterministic Quasi-Polynomial Time is Average-case Hard for ACC Circuits. Lijie Chen.

SIAM Journal on Computing, 2024.

8 Constructive Separations and Their Consequences.

Lijie Chen, Ce Jin, Rahul Santhanam, Ryan Williams.

TheoretiCS, 2024

7 On Exponential-Time Hypotheses, Derandomization, and Circuit Lower Bounds. Lijie Chen, Ron Rothblum, Roei Tell, Eylon Yogev. Journal of the ACM, 2023.

6 Improved Merlin–Arthur Protocols for Central Problems in Fine-Grained Complexity. Shyan Akmal, Lijie Chen, Ce Jin, Malvika Raj, Ryan Williams. Algorithmica, 2023.

5 Beyond Natural Proofs: Hardness Magnification and Locality.
Lijie Chen, Shuichi Hirahara, Igor Oliveira, Jan Pich, Ninad Rajgopal, Rahul Santhanam.
Journal of the ACM, 2022.

4 Efficient Construction of Rigid Matrices Using an NP Oracle. Josh Alman, Lijie Chen. SIAM Journal on Computing, 2022.

3 Strong average-case circuit lower bounds from nontrivial derandomization. Lijie Chen, Hanlin Ren. SIAM Journal on Computing, 2021.

2 On The Hardness of Approximate and Exact (Bichromatic) Maximum Inner Product. Lijie Chen.

Theory of Computing, 2020.

1 On The Power of Statistical Zero Knowledge. Adam Bouland, Lijie Chen, Dhiraj Holden, Justin Thaler, Prashant Nalini Vasudevan. SIAM Journal on Computing, 2020.

Conference Publications

49 Symmetric Exponential Time Requires Near-Maximum Circuit Size. Lijie Chen, Shuichi Hirahara, Hanlin Ren STOC 2024.

48 Polynomial-Time Pseudodeterministic Construction of Primes.

Lijie Chen, Zhenjian Lu, Igor C. Oliveira, Hanlin Ren, Rahul Santhanam

FOCS 2023.

47 Derandomization vs Refutation: A Unified Framework for Characterizing Derandomization. Lijie Chen, Roei Tell, Ryan Williams FOCS 2023.

46 Weighted Pseudorandom Generators via Inverse Analysis of Random Walks and Shortcutting. Lijie Chen, William Hoza, Xin Lyu, Avishay Tal and Hongxun Wu EOCS 2023

45 New PRGs for Unbounded-width/Adaptive-order Read-once Branching Programs. Lijie Chen, Xin Lyu, Avishay Tal, Hongxun Wu ICALP 2023.

44 When Arthur has Neither Random Coins nor Time to Spare: Superfast Derandomization of Proof Systems.

Lijie Chen, Roei Tell STOC 2023.

43 New Lower Bounds and Derandomization for ACC, and a Derandomization-centric View on the Algorithmic Method.

Lijie Chen ITCS 2023.

42 Black-box Constructive Proofs are Unavoidable. Lijie Chen, Ryan Williams, Tianqi Yang ITCS 2023.

41 Towards Multi-Pass Streaming Lower Bounds for Optimal Approximation of Max-Cut. Lijie Chen, Gillat Kol, Dmitry Paramonov, Raghuvansh Saxena, Zhao Song, Huacheng Yu SODA 2023.

40 Unstructured Hardness to Average-Case Randomness. Lijie Chen, Ron D. Rothblum, Roei Tell FOCS 2022.

39 Extremely Efficient Constructions of Hash Functions, with Applications to Hardness Magnification and PRFs.

Lijie Chen, Jiatu Li, Tianqi Yang CCC 2022.

38 Improved Merlin-Arthur Protocols for Central Problems in Fine-Grained Complexity. Shyan Akmal, Lijie Chen, Ce Jin, Malvika Raj, Ryan Williams ITCS 2022.

37 Average-case Hardness of NP and PH from Worst-case Fine-grained Assumptions. Lijie Chen, Shuichi Hirahara, Neekon Vafa. ITCS 2022.

36 Truly Low-Space Element Distinctness and Subset Sum via Pseudorandom Hash Functions. Lijie Chen, Ce Jin, Ryan Williams, Hongxun Wu. SODA 2022.

35 Constructive Separations and Their Consequences. Lijie Chen, Ce Jin, Rahul Santhanam, Ryan Williams. FOCS 2021.

34 Hardness vs Randomness, Revised: Uniform, Non-Black-Box, and Instance-Wise. Lijie Chen, Roei Tell. FOCS 2021.

33 Majority vs. Approximate Linear Sum and average-case complexity below NC1. Lijie Chen, Zhenjian Lu, Xin Lyu, Igor Oliveira. ICALP 2021.

32 Near-Optimal Two-Pass Streaming Algorithm for Sampling Random Walks over Directed Graphs.

Lijie Chen, Gillat Kol, Dmitry Paramonov, Raghuvansh Saxena, Zhao Song, Huacheng Yu. ICALP 2021.

31 Almost Optimal Super-Constant-Pass Streaming Lower Bounds for Reachability.

Lijie Chen, Gillat Kol, Dmitry Paramonov, Raghuvansh Saxena, Zhao Song, Huacheng Yu.

STOC 2021. (Invited to the SICOMP Special Issue for STOC 2021)

30 Inverse-Exponential Correlation Bounds and Extremely Rigid Matrices from a New Derandomized XOR Lemma.

Lijie Chen, Xin Lyu. STOC 2021.

29 Simple and fast derandomization from very hard functions: Eliminating randomness at almost no cost

Lijie Chen, Roei Tell. STOC 2021.

28 On Distributed Differential Privacy and Counting Distinct Elements.

Lijie Chen, Badih Ghazi, Ravi Kumar, Pasin Manurangsi.

ITCS 2021.

27 Almost Everywhere Circuit Lower Bounds from Non-Trivial Derandomization. Lijie Chen, Xin Lyu, Ryan Williams. FOCS 2020. 26 On Exponential-Time Hypotheses, Derandomization, and Circuit Lower Bounds. Lijie Chen, Ron Rothblum, Roei Tell, Eylon Yogev. FOCS 2020.

25 Sharp Threshold Results for Computational Complexity. Lijie Chen, Ce Jin, Ryan Williams. STOC 2020.

24 Strong Average-Case Circuit Lower Bounds from Non-trivial Derandomization.

Lijie Chen, Hanlin Ren.

STOC 2020. (Invited to the SICOMP Special Issue for STOC 2020)

23 Beyond Natural Proofs: Hardness Magnification and Locality.

Lijie Chen, Shuichi Hirahara, Igor Oliveira, Jan Pich, Ninad Rajgopal, Rahul Santhanam.

ITCS 2020.

22 Hardness Magnification for all Sparse NP Languages. Lijie Chen, Ce Jin, Ryan Williams. FOCS 2019.

21 Efficient Construction of Rigid Matrices Using an NP Oracle. Josh Alman, Lijie Chen.

FOCS 2019. (Machtey Award (Best Student Paper)) (Invited to the SICOMP Special Issue for FOCS 2019)

20 Non-deterministic Quasi-Polynomial Time is Average-case Hard for ACC Circuits. Lijie Chen.

FOCS 2019. (Invited to the SICOMP Special Issue for FOCS 2019)

19 Broadcast Congested Clique: Planted Cliques and Pseudorandom Generators. Lijie Chen, Ofer Grossman. PODC 2019.

18 Relations and Equivalences Between Circuit Lower Bounds and Karp-Lipton Theorems. Lijie Chen, Dylan McKay, Cody Murray, Ryan Williams. CCC 2019.

17 Stronger Connections Between Circuit Analysis and Circuit Lower Bounds, via PCPs of Proximity.

Lijie Chen, Ryan Williams. CCC 2019.

16 Bootstrapping Results for Threshold Circuits "Just Beyond" Known Lower Bounds. Lijie Chen, Roei Tell.

STOC 2019. (Danny Lewin Best Student Paper Award)

15 Classical Algorithms from Quantum and Arthur-Merlin Communication Protocols. Lijie Chen, Ruosong Wang. ITCS 2019.

14 An Equivalence Class for Orthogonal Vectors.

Lijie Chen, Ryan Williams. SODA 2019.

13 Fine-grained Complexity Meets IP = PSPACE.

Lijie Chen, Shafi Goldwasser, Kaifeng Lyu, Guy N. Rothblum, Aviad Rubinstein. SODA 2019.

12 Nearly Optimal Separation Between Partially And Fully Retroactive Data Structures. Lijie Chen, Erik D. Demaine, Yuzhou Gu, Virginia Vassilevska Williams, Yinzhan Xu, Yuancheng Yu. SWAT 2018.

11 An Improved Algorithm for Incremental DFS Tree in Undirected Graphs. Lijie Chen, Ran Duan, Ruosong Wang, Hanrui Zhang, Tianyi Zhang. SWAT 2018.

10 On The Hardness of Approximate and Exact (Bichromatic) Maximum Inner Product. Lijie Chen.

CCC 2018. (Invited to the Toc Special Issue for CCC 2018)

- 9 On The Power of Statistical Zero Knowledge. Adam Bouland, Lijie Chen, Dhiraj Holden, Justin Thaler, Prashant Nalini Vasudevan. FOCS 2017. (Invited to the SICOMP Special Issue for FOCS 2017)
- 8 Nearly Optimal Sampling Algorithms for Combinatorial Pure Exploration. Lijie Chen, Anupam Gupta, Jian Li, Mingda Qiao and Ruosong Wang. COLT 2017.
- 7 Towards Instance Optimal Bounds for Best Arm Identification. Lijie Chen, Jian Li, Mingda Qiao. COLT 2017.
- 6 Complexity-Theoretic Foundations of Quantum Supremacy Experiments. Scott Aaronson, Lijie Chen.
 - CCC 2017. (Invited to the Toc Special Issue for CCC 2017).
- Nearly Instance Optimal Sample Complexity Bounds for Top-k Arm Selection. Lijie Chen, Jian Li, Mingda Qiao. AISTATS 2017.
- 4 K-Memory Strategies in Repeated Games.
 Lijie Chen, Fangzhen Lin, Pingzhong Tang, Kangning Wang, Ruosong Wang, Shiheng Wang.
 AAMAS 2017 (extended abstract).
- 3 Bounded rationality of restricted Turing machines. Lijie Chen, Pingzhong Tang, Ruosong Wang. AAAI 2017.
- 2 Adaptivity vs Postselection, and Hardness Amplification in Polynomial Approximation. Lijie Chen. ISAAC 2016 (Best Student Paper).
- 1 Pure Exploration of Multi-armed Bandit Under Matroid Constraints. Lijie Chen, Anupum Gupta, Jian Li. COLT 2016.

Languages

Chinese (Native)English (Fluent)Japanese (N2)