

Zhize Li (李志泽)



IIIS, Tsinghua University

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EDUCATION

Sep, 2014 - Now Ph.D. in Computer Science	Institute for Interdisciplinary Information Sciences (IIIS) Tsinghua University Advisor: Prof. Jian Li
Jan - Jun & Jul - Sep, 2018 Visiting Scholar	Department of Computer Science Duke University Host: Prof. Rong Ge
Jun - Jul, 2018 Visiting Scholar	Industrial and Systems Engineering (ISyE) Georgia Institute of Technology Host: Prof. Guanghui (George) Lan
Aug, 2010 - Jul, 2014 B.E. in Computer Science	Department of Computer Science Xidian University GPA Ranking: 2/419 Thesis: "Design of Optimal Algorithm for Multi-Armed Bandits"

RESEARCH INTERESTS

- I am interested in optimization, theoretical computer science and machine learning.
- Algorithms for Convex/Nonconvex/Distributed Optimization and Machine Learning (Major)
 - Algorithm Design and Data Structures
 - Game Theory and Mechanism Design

EXPERIENCE/SERVICES

- (Sub-)Reviewer: ICML 2019, STOC 2019, JMLR 2018, COLT 2018, ICML 2017, AAAI 2017, ICALP 2016, TPDS 2016, TPAMI 2015, TON 2015.
- Sep, 2014 - Now Research Assistant (RA)
[Tsinghua-MIT-CUHK Research Center](#) for Theoretical Computer Science
- Feb, 2017 - Jun, 2017 Teaching Assistant (TA)
Advanced Theoretical Computer Science for graduate students
- Jul, 2016 - Aug, 2016 The 2016 National Combinatorial Optimization Summer School
Courses: Computational Complexity, Approximation Algorithms, Randomized Algorithms
Outstanding Student (top 10/110)
- Sep, 2015 - Dec, 2015 Teaching Assistant (TA)
Algorithm Design for undergraduate students ([Yao Class](#))
- **Algorithm Engineer Intern:** [Alibaba](#) (Jul - Aug, 2013), [NetEase](#) (Jun - Aug, 2017)

PUBLICATIONS

1. Rong Ge, Rohith Kuditipudi, Zhize Li, Xiang Wang (**alphabetical order**). **Learning Two-layer Neural Networks with Symmetric Inputs**. In *7th International Conference on Learning Representations (ICLR 2019)*.
2. **Zhize Li**, Jian Li. **A Simple Proximal Stochastic Gradient Method for Nonsmooth Non-convex Optimization**. In *32nd Conference on Neural Information Processing Systems (NIPS 2018)*. **Spotlight**.
3. **Zhize Li**, Jian Li, Hongwei Huo. **Optimal In-Place Suffix Sorting**. In *25th International Symposium on String Processing and Information Retrieval (SPIRE 2018)*. **Invited**.
4. **Zhize Li**, Le Zhang, Zhixuan Fang, Jian Li. **Optimal Two-Stage Mechanism for Ordinal Peer Assessment**. In *11th International Symposium on Algorithmic Game Theory (SAGT 2018)*.

5. **Zhize Li**, Wei Zhang, Kees Roos. **A Fast Polynomial Primal-Dual Projection Algorithm for Linear Programming**. In *23rd International Symposium on Mathematical Programming (ISMP 2018)*. Full version in submission.
6. **Zhize Li**, Tianyi Zhang, Jian Li. **Stochastic Gradient Hamiltonian Monte Carlo with Variance Reduction for Bayesian Inference**. Submitted to ([Machine Learning](#) journal). under revision.
7. **Zhize Li**, Jian Li, Hongwei Huo. **Optimal In-Place Suffix Sorting**. Extended Abstract in *28th IEEE Data Compression Conference (DCC 2018)*.
8. Wei Cao, Jian Li, Yufei Tao, **Zhize Li**. **On Top-k Selection in Multi-Armed Bandits and Hidden Bipartite Graphs**. In *28th Conference on Neural Information Processing Systems (NIPS 2015)*.

IN SUBMISSION

1. **Zhize Li**, Jian Li. **An Anderson-Chebyshev Mixing Method for Nonlinear Optimization**. Submitted. 2018.
2. Zengyin Yang, Qian Wu, Hewu Li, **Zhize Li**, Jianping Wu. **DC-ROS: A Decoupled-Conflict Route Oscillation Suppression Scheme for IP-based Space Network**. Submitted. 2018.

MANUSCRIPTS

1. Yu Shi, Jian Li, **Zhize Li**. **Gradient Boosting With Piece-Wise Linear Regression Trees**. [[arXiv](#)]. 2018.

INVITED TALKS/POSTERS

1. [China Theory Week 2018](#) (founded by Prof. Andrew Chi-Chih Yao in 2007). [slides]
2. The 16th [China Symposium on Machine Learning and Applications](#) (MLA'18). [slides]. [poster]

CONFERENCE TALKS/POSTERS

NeurIPS 2018, SPIRE 2018, SAGT 2018, ISMP 2018, DCC 2018, NIPS 2015.

SELECTED AWARDS

- National Scholarship (top 1%)
- Pacesetter of Outstanding Graduates (highest)
- The First Prize in Collegiate Advanced Mathematics Contest (highest) top 13/15000