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RESEARCH INTERESTS	Machine Learning, Optimization	
ACADEMIC APPOINTMENTS	<b>Professor</b>	Dec., 2020 – present
	<b>Research Professor</b>	Dec., 2019 – Dec., 2020
	School of Artificial Intelligence, Nanjing University	
	<b>Associate Professor</b>	Apr., 2014 – Dec., 2019
	Department of Computer Science and Technology, Nanjing University	
	<b>Postdoctoral Researcher</b>	Aug., 2012 – Apr., 2014
	Department of Computer Science and Engineering, Michigan State University	
	• Advisor: Prof. Rong Jin	
EDUCATION	<b>Zhejiang University</b> , Hangzhou, China	
	Ph.D., Computer Science and Technology, Sep., 2007 – Jun., 2012	
	• Advisor: Prof. Chun Chen	
	B.E., Software Engineering, Sep., 2003 – Jun., 2007	
	<b>Michigan State University</b> , East Lansing, USA	
	Visiting Student, Department of Computer Science and Engineering, Jun., 2011 – Dec., 2011	
	• Advisor: Prof. Rong Jin	
HONORS AND AWARDS	<ul style="list-style-type: none"> <li>• 2021, NSFC Excellent Young Scientists Fund</li> <li>• 2019, Microsoft Research Asia Collaborative Research 2019 Grant Award</li> <li>• 2018, DAMO Academy Young Fellow</li> <li>• 2017, Young Elite Scientist Sponsorship Program by CAST</li> <li>• 2016, Young Talent Development Program of the CCF</li> <li>• 2012, AAAI-12 Outstanding Paper Award</li> <li>• 2011, Chu Kochen Award (Highest Honour of Zhejiang University)</li> <li>• 2010, ACM Multimedia 2010 Best Paper Award Runner-up</li> <li>• 2010, Scholarship Award for Excellent Doctoral Student Granted by Ministry of Education</li> <li>• 2007, 2012, Excellent Graduate of Zhejiang Province</li> <li>• 2007, 2012, Excellent Graduate of Zhejiang University</li> </ul>	
PROFESSIONAL SERVICE	<b>Editorial Boards</b>	
	• Action Editor, <i>Transactions on Machine Learning Research</i> , Since Dec., 2021	
	• Action Editor, <i>Machine Learning</i> , Since Jun., 2021	
	• Associate Editor, <i>Neurocomputing</i> , Since Mar., 2021	

- Topic Editor, *Remote Sensing*, Feb., 2021 – Aug., 2021
- Editorial Board Reviewer, *Journal of Machine Learning Research*, Since Jun., 2020

#### **Area Chair**

- The 42nd International Conference on Machine Learning (ICML 2025)
- The 41st International Conference on Machine Learning (ICML 2024)
- The 40th International Conference on Machine Learning (ICML 2023)
- The 39th International Conference on Machine Learning (ICML 2022)
- The 13th International Conference on Learning Representations (ICLR 2025)
- The 12th International Conference on Learning Representations (ICLR 2024)
- The 39th Annual Conference on Neural Information Processing Systems (NeurIPS 2025)
- The 38th Annual Conference on Neural Information Processing Systems (NeurIPS 2024)
- The 37th Annual Conference on Neural Information Processing Systems (NeurIPS 2023)
- The 36th Annual Conference on Neural Information Processing Systems (NeurIPS 2022)
- The 35th Annual Conference on Neural Information Processing Systems (NeurIPS 2021)
- The 34th International Joint Conference on Artificial Intelligence (IJCAI 2025)
- The 30th International Joint Conference on Artificial Intelligence (IJCAI 2021)
- The 26th International Joint Conference on Artificial Intelligence (IJCAI 2017)
- The 3rd Chinese Conference on Pattern Recognition and Computer Vision (PRCV 2020)
- The CAAI International Conference on Artificial Intelligence(CICAI 2023)
- The CAAI International Conference on Artificial Intelligence(CICAI 2022)
- The CAAI International Conference on Artificial Intelligence (CICAI 2021)

#### **Senior Program Committee Member**

- The 33rd International Joint Conference on Artificial Intelligence (IJCAI 2024)
- The 31st International Joint Conference on Artificial Intelligence (IJCAI 2022)
- The 34th AAAI Conference on Artificial Intelligence (AAAI 2020)
- The 33rd AAAI Conference on Artificial Intelligence (AAAI 2019)
- The 29th International Conference on Artificial Intelligence (IJCAI 2020)
- The 28th International Conference on Artificial Intelligence (IJCAI 2019)
- The 27th International Conference on Artificial Intelligence (IJCAI 2018)

#### **Program Committee Member**

- The 38th International Conference on Machine Learning (ICML 2021)
- The 37th International Conference on Machine Learning (ICML 2020)
- The 36th International Conference on Machine Learning (ICML 2019)
- The 35th International Conference on Machine Learning (ICML 2018)
- The 33rd International Conference on Machine Learning (ICML 2016)
- The 26th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2020)
- The 25th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2019)
- The 24th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2018)
- The 22nd ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2016)
- The 21st ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2015)

- The 36th AAAI Conference on Artificial Intelligence (AAAI 2022)
- The 35th AAAI Conference on Artificial Intelligence (AAAI 2021)
- The 32nd AAAI Conference on Artificial Intelligence (AAAI 2018)
- The 31st AAAI Conference on Artificial Intelligence (AAAI 2017)
- The 29th AAAI Conference on Artificial Intelligence (AAAI 2015)
- The 26th AAAI Conference on Artificial Intelligence (AAAI 2012)
- The 25th International Joint Conference on Artificial Intelligence (IJCAI 2016)
- The 24th International Joint Conference on Artificial Intelligence (IJCAI 2015)
- The 23rd International Joint Conference on Artificial Intelligence (IJCAI 2013)
- The 23rd ACM International Conference on Multimedia (MM 2015)
- The 22nd ACM International Conference on Multimedia (MM 2014)

### **Reviewer**

- The IEEE/CVF International Conference on Computer Vision 2025 (ICCV 2025)
- The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2025 (CVPR 2025)
- The 34th Annual Conference on Neural Information Processing Systems (NeurIPS 2020)
- The 33rd Annual Conference on Neural Information Processing Systems (NeurIPS 2019)
- The 32nd Annual Conference on Neural Information Processing Systems (NeurIPS 2018)
- The 31st Annual Conference on Neural Information Processing Systems (NIPS 2017)
- The 30th Annual Conference on Neural Information Processing Systems (NIPS 2016)
- The 29th Annual Conference on Neural Information Processing Systems (NIPS 2015)
- The 28th Annual Conference on Neural Information Processing Systems (NIPS 2014)
- The 27th Annual Conference on Neural Information Processing Systems (NIPS 2013)
- The 21st International Conference on Artificial Intelligence and Statistics (AISTATS 2018)
- The 20th International Conference on Artificial Intelligence and Statistics (AISTATS 2017)
- The 19th International Conference on Artificial Intelligence and Statistics (AISTATS 2016)
- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
- IEEE Transactions on Knowledge and Data Engineering (TKDE)
- IEEE Transactions on Multimedia (TMM)
- Transactions on Intelligent Systems and Technology (TIST)
- IEEE Transactions on Systems, Man, and Cybernetics, Part B: Cybernetics (TSMCB)
- IEEE Transactions on Systems, Man, and Cybernetics, Part C: Applications and Reviews (TSMCC)
- IEEE Transactions on Cybernetics
- IEEE Transactions on Neural Networks and Learning Systems (TNNLS)
- IEEE Transactions on Big Data (TBD)
- ACM Transactions on Knowledge Discovery from Data (TKDD)
- Machine Learning, Pattern Recognition
- Information Sciences, Neural Networks
- Neurocomputing, Pattern Recognition Letters
- Signal Processing, Knowledge-Based Systems
- Journal of Scientific Computing (JOMP)
- Journal of Selected Topics in Signal Processing (JSTSP)
- Journal of Computer Science and Technology (JCST)
- SCIENCE CHINA Information Sciences

### **Program Co-Chair**

- The 12th Vision and Learning Seminar (VALSE 2022)
- The 19th China Symposium on Machine Learning and Applications (MLA 2021)

#### Workshop Co-Chair

- The 11th Vision and Learning Seminar (VALSE 2021)
- The 9th Vision and Learning Seminar (VALSE 2019)

#### APR Co-Chair

- The 15th Vision and Learning Seminar (VALSE 2025)
- The 10th Vision and Learning Seminar (VALSE 2020)

#### Publications Co-Chair

- The 9th China Conference on Data Mining (CCDM 2022)

#### Organizing Committee Member

- The 16th China Symposium on Machine Learning and Applications (MLA 2018)

#### BOOK

1. Zhi-Hua Zhou, Wei Wang, Wei Gao, and **Lijun Zhang**. Introduction to the Theory of Machine Learning (In Chinese). China Machine Press, 2020.

#### CONFERENCE PUBLICATIONS

1. Sijia Chen, Yibo Wang, Yi-Feng Wu, Qing-Guo Chen, Zhao Xu, Weihua Luo, Kaifu Zhang, and **Lijun Zhang**. Advancing Tool-Augmented Large Language Models: Integrating Insights from Errors in Inference Trees. In *Advances in Neural Information Processing Systems 37 (NeurIPS)*, to appear, 2024.
2. Wenhao Yang, Yibo Wang, Peng Zhao, and **Lijun Zhang**. Universal Online Convex Optimization with 1 Projection per Round. In *Advances in Neural Information Processing Systems 37 (NeurIPS)*, to appear, 2024.
3. Yibo Wang, Sijia Chen, Wei Jiang, Wenhao Yang, Yuanyu Wan, and **Lijun Zhang**. Online Composite Optimization Between Stochastic and Adversarial Environments. In *Advances in Neural Information Processing Systems 37 (NeurIPS)*, to appear, 2024.
4. Zhipan Xu, and **Lijun Zhang**. Online Non-convex Learning in Dynamic Environments. In *Advances in Neural Information Processing Systems 37 (NeurIPS)*, to appear, 2024.
5. Yuanyu Wan, Chang Yao, Mingli Song, and **Lijun Zhang**. Improved Regret for Bandit Convex Optimization with Delayed Feedback. In *Advances in Neural Information Processing Systems 37 (NeurIPS)*, to appear, 2024.
6. Wei Jiang, Sifan Yang, Yibo Wang, and **Lijun Zhang**. Adaptive Variance Reduction for Stochastic Optimization under Weaker Assumptions. In *Advances in Neural Information Processing Systems 37 (NeurIPS)*, to appear, 2024.
7. Wei Jiang, Sifan Yang, Wenhao Yang, and **Lijun Zhang**. Efficient Sign-Based Optimization: Accelerating Convergence via Variance Reduction. In *Advances in Neural Information Processing Systems 37 (NeurIPS)*, to appear, 2024.
8. Yuanyu Wan, Tong Wei, Mingli Song, and **Lijun Zhang**. Nearly Optimal Regret for Decentralized Online Convex Optimization. In *Proceedings of the 37th Conference on Learning Theory (COLT)*, pp. 4862–4888, 2024.
9. **Lijun Zhang**, Haomin Bai, Wei-Wei Tu, Ping Yang, and Yao Hu. Efficient Stochastic Approximation of Minimax Excess Risk Optimization. In *Proceedings of the 41st International Conference on Machine Learning (ICML)*, pp. 58599–58630, 2024.

10. Dingzhi Yu, Yunuo Cai, Wei Jiang, and **Lijun Zhang**. Efficient Algorithms for Empirical Group Distributionally Robust Optimization and Beyond. In *Proceedings of the 41st International Conference on Machine Learning (ICML)*, pp. 57384–57414, 2024.
11. Wei Jiang, Sifan Yang, Wenhao Yang, Yibo Wang, Yuanyu Wan, and **Lijun Zhang**. Projection-Free Variance Reduction Methods for Stochastic Constrained Multi-Level Compositional Optimization. In *Proceedings of the 41st International Conference on Machine Learning (ICML)*, pp. 21962–21987, 2024.
12. Langqi Liu, Yibo Wang, and **Lijun Zhang**. High-Probability Bound for Non-Smooth Non-Convex Stochastic Optimization with Heavy Tails. In *Proceedings of the 41st International Conference on Machine Learning (ICML)*, pp. 32122–32138, 2024.
13. Zi-Hao Qiu, Siqi Guo, Mao Xu, Tuo Zhao, **Lijun Zhang**, and Tianbao Yang. To Cool or not to Cool? Temperature Network Meets Large Foundation Models via DRO. In *Proceedings of the 41st International Conference on Machine Learning (ICML)*, pp. 41604–41643, 2024.
14. Wenhao Yang, Wei Jiang, Yibo Wang, Ping Yang, Yao Hu, and **Lijun Zhang**. Small-loss Adaptive Regret for Online Convex Optimization. In *Proceedings of the 41st International Conference on Machine Learning (ICML)*, pp. 56156–56195, 2024.
15. Yuanyu Wan, Chang Yao, Mingli Song, and **Lijun Zhang**. Non-stationary Online Convex Optimization with Arbitrary Delays. In *Proceedings of the 41st International Conference on Machine Learning (ICML)*, pp. 49991–50011, 2024.
16. Zhen-Hua Zhuang, and **Lijun Zhang**. Soft Contrastive Learning for Implicit Feedback Recommendations. In *Advances in Knowledge Discovery and Data Mining (PAKDD)*, pp. 219–230, 2024.
17. Wenhao Yang, Yingchun Jian, Yibo Wang, Shiyin Lu, Lei Shen, Bing Wang, Haihong Tang, and **Lijun Zhang**. Not All Embeddings are Created Equal: Towards Robust Cross-domain Recommendation via Contrastive Learning. In *Proceedings of the ACM Web Conference 2024 (WWW)*, pp. 3195–3206, 2024.
18. Yibo Wang, Wenhao Yang, Wei Jiang, Shiyin Lu, Bing Wang, Haihong Tang, Yuanyu Wan, and **Lijun Zhang**. Non-stationary Projection-Free Online Learning with Dynamic and Adaptive Regret Guarantees. In *Proceedings of the 38th AAAI Conference on Artificial Intelligence (AAAI)*, pp. 15671–15679, 2024.
19. **Lijun Zhang**, Peng Zhao, Zhen-Hua Zhuang, Tianbao Yang, and Zhi-Hua Zhou. Stochastic Approximation Approaches to Group Distributionally Robust Optimization. In *Advances in Neural Information Processing Systems 36 (NeurIPS)*, pp. 52490–52522, 2023.
20. Bo Xue, Yimu Wang, Yuanyu Wan, Jinfeng Yi, and **Lijun Zhang**. Efficient Algorithms for Generalized Linear Bandits with Heavy-tailed Rewards. In *Advances in Neural Information Processing Systems 36 (NeurIPS)*, pp. 70880–70891, 2023.
21. Zhenyao Zhang, and **Lijun Zhang**. NeCa: Network Calibration for Class Incremental Learning. In *Pattern Recognition (ACPR)*, pp. 385–399, 2023.
22. Yuanyu Wan, **Lijun Zhang**, and Mingli Song. Improved Dynamic Regret for Online Frank-Wolfe. In *Proceedings of the 36th Annual Conference on Learning Theory (COLT)*, pp. 3304–3327, 2023.

23. Yutian Gou, Jinfeng Yi, and **Lijun Zhang**. Stochastic Graphical Bandits with Heavy-Tailed Rewards. In *Proceedings of the 39th Conference on Uncertainty in Artificial Intelligence (UAI)*, pp. 734–744, 2023.
24. Sijia Chen, Wei-Wei Tu, Peng Zhao, and **Lijun Zhang**. Optimistic Online Mirror Descent for Bridging Stochastic and Adversarial Online Convex Optimization. In *Proceedings of the 40th International Conference on Machine Learning (ICML)*, pp. 5002–5035, 2023.
25. Wei Jiang, Jiayu Qin, Lingyu Wu, Changyou Chen, Tianbao Yang, and **Lijun Zhang**. Learning Unnormalized Statistical Models via Compositional Optimization. In *Proceedings of the 40th International Conference on Machine Learning (ICML)*, pp. 15105–15124, 2023.
26. Zi-Hao Qiu, Quanqi Hu, Zhuoning Yuan, Denny Zhou, **Lijun Zhang**, and Tianbao Yang. Not All Semantics are Created Equal: Contrastive Self-supervised Learning with Automatic Temperature Individualization. In *Proceedings of the 40th International Conference on Machine Learning (ICML)*, pp. 28389–28421, 2023.
27. Quanqi Hu, Zi-Hao Qiu, Zhishuai Guo, **Lijun Zhang**, and Tianbao Yang. Blockwise Stochastic Variance-Reduced Methods with Parallel Speedup for Multi-Block Bilevel Optimization. In *Proceedings of the 40th International Conference on Machine Learning (ICML)*, pp. 13550–13583, 2023.
28. Yibo Wang, Yuanyu Wan, Shimao Zhang, and **Lijun Zhang**. Distributed Projection-free Online Learning for Smooth and Convex Losses. In *Proceedings of the 37th AAAI Conference on Artificial Intelligence (AAAI)*, pp. 10226–10234, 2023.
29. **Lijun Zhang**, Wei Jiang, Jinfeng Yi, and Tianbao Yang. Smoothed Online Convex Optimization Based on Discounted-Normal-Predictor. In *Advances in Neural Information Processing Systems 35 (NeurIPS)*, pp. 4928–4942, 2022.
30. Yuanyu Wan, Wei-Wei Tu, and **Lijun Zhang**. Online Frank-Wolfe with Arbitrary Delays. In *Advances in Neural Information Processing Systems 35 (NeurIPS)*, pp. 19703–19715, 2022.
31. Wei Jiang, Gang Li, Yibo Wang, **Lijun Zhang**, and Tianbao Yang. Multi-block-Single-probe Variance Reduced Estimator for Coupled Compositional Optimization. In *Advances in Neural Information Processing Systems 35 (NeurIPS)*, pp. 32499–32511, 2022.
32. Peng Zhao, Yan-Feng Xie, **Lijun Zhang**, and Zhi-Hua Zhou. Efficient Methods for Non-stationary Online Learning. In *Advances in Neural Information Processing Systems 35 (NeurIPS)*, pp. 11573–11585, 2022.
33. Shiyin Lu, Yuan Miao, Ping Yang, Yao Hu, and **Lijun Zhang**. Non-stationary Dueling Bandits for Online Learning to Rank. In *Proceedings of the 6th APWeb and WAIM Joint International Conference on Web and Big Data (APWeb-WAIM)*, Part II, pp. 166–174, 2022.
34. **Lijun Zhang**, Guanghui Wang, Jinfeng Yi, and Tianbao Yang. A Simple yet Universal Strategy for Online Convex Optimization. In *Proceedings of the 39th International Conference on Machine Learning (ICML)*, pp. 26605–26623, 2022.
35. Wei Jiang, Bokun Wang, Yibo Wang, **Lijun Zhang**, and Tianbao Yang. Optimal Algorithms for Stochastic Multi-Level Compositional Optimization. In *Proceedings of the 39th International Conference on Machine Learning (ICML)*, pp. 10195–10216, 2022.

36. Zi-Hao Qiu, Quanqi Hu, Yongjian Zhong, **Lijun Zhang**, and Tianbao Yang. Large-scale Stochastic Optimization of NDCG Surrogates for Deep Learning with Provable Convergence. In *Proceedings of the 39th International Conference on Machine Learning (ICML)*, pp. 18122–18152, 2022.
37. Zhuoning Yuan, Yuexin Wu, Zi-Hao Qiu, Xianzhi Du, **Lijun Zhang**, Denny Zhou, and Tianbao Yang. Provable Stochastic Optimization for Global Contrastive Learning: Small Batch Does Not Harm Performance. In *Proceedings of the 39th International Conference on Machine Learning (ICML)*, pp. 25760–25782, 2022.
38. Yingchun Jian, Jinfeng Yi, and **Lijun Zhang**. Adaptive Feature Generation for Online Continual Learning from Imbalanced Data. In *Advances in Knowledge Discovery and Data Mining (PAKDD)*, pp. 276–289, 2022.
39. Guanghui Wang, Ming Yang, **Lijun Zhang**, and Tianbao Yang. Momentum Accelerates the Convergence of Stochastic AUPRC Maximization. In *Proceedings of The 25th International Conference on Artificial Intelligence and Statistics (AISTATS)*, pp. 3753–3771, 2022.
40. Shiyin Lu, Yu-Hang Zhou, Jing-Cheng Shi, Wenya Zhu, Qingtao Yu, Qing-Guo Chen, Qing Da, and **Lijun Zhang**. Non-stationary Continuum-armed Bandits for Online Hyperparameter Optimization. In *Proceedings of the 15th ACM International Conference on Web Search and Data Mining (WSDM)*, pp. 618–627, 2022.
41. **Lijun Zhang**, Wei Jiang, Shiyin Lu, and Tianbao Yang. Revisiting Smoothed Online Learning. In *Advances in Neural Information Processing Systems 34 (NeurIPS)*, pp. 13599–13612, 2021.
42. **Lijun Zhang**, Guanghui Wang, Wei-Wei Tu, Wei Jiang, and Zhi-Hua Zhou. Dual Adaptivity: A Universal Algorithm for Minimizing the Adaptive Regret of Convex Functions. In *Advances in Neural Information Processing Systems 34 (NeurIPS)*, pp. 24968–24980, 2021.
43. Guanghui Wang, Yuanyu Wan, Tianbao Yang, and **Lijun Zhang**. Online Convex Optimization with Continuous Switching Constraint. In *Advances in Neural Information Processing Systems 34 (NeurIPS)*, pp. 28636–28647, 2021.
44. Zi-Hao Qiu and Ying-Chun Jian and Qing-Guo Chen, and **Lijun Zhang**. Learning to Augment Imbalanced Data for Re-Ranking Models. In *Proceedings of the 30th ACM International Conference on Information and Knowledge Management (CIKM)*, pp. 1478–1487, 2021.
45. Yimu Wang, Bo Xue, Quan Cheng, Yuhui Chen, and **Lijun Zhang**. Deep Unified Cross-Modality Hashing by Pairwise Data Alignment. In *Proceedings of the 30th International Joint Conference on Artificial Intelligence (IJCAI)*, pp. 1129–1135, 2021.
46. Peng Zhao, and **Lijun Zhang**. Improved Analysis for Dynamic Regret of Strongly Convex and Smooth Functions. In *Proceedings of the 3rd Conference on Learning for Dynamics and Control (L4DC)*, pp. 48–59, 2021.
47. Shiyin Lu, Guanghui Wang, and **Lijun Zhang**. Stochastic Graphical Bandits with Adversarial Corruptions. In *Proceedings of the 35th AAAI Conference on Artificial Intelligence (AAAI)*, pp. 8749–8757, 2021.
48. Shiyin Lu, Yao Hu, and **Lijun Zhang**. Stochastic Bandits with Graph Feedback in Non-Stationary Environments. In *Proceedings of the 35th AAAI Conference on Artificial Intelligence (AAAI)*, pp. 8758–8766, 2021.

49. Yuanyu Wan, and **Lijun Zhang**. Approximate Multiplication of Sparse Matrices with Limited Space. In *Proceedings of the 35th AAAI Conference on Artificial Intelligence (AAAI)*, pp. 10058–10066, 2021.
50. Yuanyu Wan, and **Lijun Zhang**. Projection-free Online Learning over Strongly Convex Sets. In *Proceedings of the 35th AAAI Conference on Artificial Intelligence (AAAI)*, pp. 10067–10075, 2021.
51. Yuanyu Wan, Bo Xue, and **Lijun Zhang**. Projection-Free Online Learning in Dynamic Environments. In *Proceedings of the 35th AAAI Conference on Artificial Intelligence (AAAI)*, pp. 10076–10084, 2021.
52. Peng Zhao, Yu-Jie Zhang, **Lijun Zhang**, and Zhi-Hua Zhou. Dynamic Regret of Convex and Smooth Functions. In *Advances in Neural Information Processing Systems 33 (NeurIPS)*, pp. 12510–12520, 2020.
53. Pengcheng Li, Runze Li, Qing Da, An-Xiang Zeng, and **Lijun Zhang**. Improving Multi-Scenario Learning to Rank in E-Commerce by Exploiting Task Relationships in the Label Space. In *Proceedings of the 29th ACM International Conference on Information and Knowledge Management (CIKM)*, pp. 2605–2612, 2020.
54. Yimu Wang, Shiyin Lu, and **Lijun Zhang**. Searching Privately by Imperceptible Lying: A Novel Private Hashing Method with Differential Privacy. In *Proceedings of the 28th ACM International Conference on Multimedia (ACM Multimedia)*, pp. 2700–2709, 2020.
55. Yimu Wang, Xiu-Shen Wei, Bo Xue, and **Lijun Zhang**. Piecewise Hashing: A Deep Hashing Method for Large-Scale Fine-Grained Search. In *Proceedings of the 3rd Chinese Conference on Pattern Recognition and Computer Vision (PRCV)*, pp. 432–444, 2020.
56. Yuanyu Wan, Wei-Wei Tu, and **Lijun Zhang**. Projection-free Distributed Online Convex Optimization with  $O(\sqrt{T})$  Communication Complexity. In *Proceedings of the 37th International Conference on Machine Learning (ICML)*, pp. 9818–9828, 2020.
57. Yan Yan, Yi Xu, **Lijun Zhang**, Xiaoyu Wang, and Tianbao Yang. Stochastic Optimization for Non-convex Inf-Projection Problems. In *Proceedings of the 37th International Conference on Machine Learning (ICML)*, pp. 10660–10669, 2020.
58. **Lijun Zhang**. Online Learning in Changing Environments. In *Proceedings of the 29th International Joint Conference on Artificial Intelligence (IJCAI)*, Early Career, pp. 5178–5182, 2020.
59. Bo Xue, Guanghui Wang, Yimu Wang, and **Lijun Zhang**. Nearly Optimal Regret for Stochastic Linear Bandits with Heavy-Tailed Payoffs. In *Proceedings of the 29th International Joint Conference on Artificial Intelligence (IJCAI)*, pp. 2936–2942, 2020.
60. **Lijun Zhang**, Shiyin Lu, and Tianbao Yang. Minimizing Dynamic Regret and Adaptive Regret Simultaneously. In *Proceedings of the 23rd International Conference on Artificial Intelligence and Statistics (AISTATS)*, pp. 309–319, 2020.
61. Peng Zhao, **Lijun Zhang**, Yuan Jiang, and Zhi-Hua Zhou. A Simple Approach for Non-stationary Linear Bandits. In *Proceedings of the 23rd International Conference on Artificial Intelligence and Statistics (AISTATS)*, pp. 746–755, 2020.
62. Peng Zhao, Guanghui Wang, **Lijun Zhang**, and Zhi-Hua Zhou. Bandit Convex Optimization in Non-stationary Environments. In *Proceedings of the 23rd International Conference on Artificial Intelligence and Statistics (AISTATS)*, pp. 1508–1518, 2020.

63. Yimu Wang, Ren-Jie Song, Xiu-Shen Wei, and **Lijun Zhang**. An Adversarial Domain Adaptation Network for Cross-Domain Fine-Grained Recognition. In *Proceedings of the 2020 IEEE Winter Conference on Applications of Computer Vision (WACV)*, pp. 1217–1225, 2020.
64. Guanghui Wang, Shiyin Lu, Weiwei Tu, and **Lijun Zhang**. SAdam: A Variant of Adam for Strongly Convex Functions. In *International Conference on Learning Representations (ICLR)*, 2020.
65. Guanghui Wang, Shiyin Lu, Yao Hu, and **Lijun Zhang**. Adapting to Smoothness: A More Universal Algorithm for Online Convex Optimization. In *Proceedings of the 34th AAAI Conference on Artificial Intelligence (AAAI)*, pp. 6162–6169, 2019.
66. Shiyin Lu, Guanghui Wang, Yao Hu, and **Lijun Zhang**. Multi-Objective Generalized Linear Bandits. In *Proceedings of the 28th International Joint Conference on Artificial Intelligence (IJCAI)*, pp. 3080–3086, 2019.
67. Pengcheng Li, Jinfeng Yi, Bowen Zhou, and **Lijun Zhang**. Improving the Robustness of Deep Neural Networks via Adversarial Training with Triplet Loss. In *Proceedings of the 28th International Joint Conference on Artificial Intelligence (IJCAI)*, pp. 2909–2915, 2019.
68. Guanghui Wang, Shiyin Lu, and **Lijun Zhang**. Adaptivity and Optimality: A Universal Algorithm for Online Convex Optimization. In *Proceedings of 35th Conference on Uncertainty in Artificial Intelligence (UAI)*, pp. 659–668, 2019.
69. **Lijun Zhang**, and Zhi-Hua Zhou. Stochastic Approximation of Smooth and Strongly Convex Functions: Beyond the  $O(1/T)$  Convergence Rate. In *Proceedings of the 32nd Annual Conference on Learning Theory (COLT)*, pp. 3160–3179, 2019.
70. **Lijun Zhang**, Tie-Yan Liu, and Zhi-Hua Zhou. Adaptive Regret of Convex and Smooth Functions. In *Proceedings of the 36th International Conference on Machine Learning (ICML)*, pp. 7414–7423, 2019.
71. Shiyin Lu, Guanghui Wang, Yao Hu, and **Lijun Zhang**. Optimal Algorithms for Lipschitz Bandits with Heavy-tailed Rewards. In *Proceedings of the 36th International Conference on Machine Learning (ICML)*, pp. 4154–4163, 2019.
72. **Lijun Zhang**, and Zhi-Hua Zhou.  $\ell_1$ -regression with Heavy-tailed Distributions. In *Advances in Neural Information Processing Systems 31 (NeurIPS)*, pp. 1076–1086, 2018.
73. **Lijun Zhang**, Shiyin Lu, and Zhi-Hua Zhou. Adaptive Online Learning in Dynamic Environments. In *Advances in Neural Information Processing Systems 31 (NeurIPS)*, pp. 1323–1333, 2018.
74. Mingrui Liu, Xiaoxuan Zhang, **Lijun Zhang**, Rong Jin, and Tianbao Yang. Fast Rates of ERM and Stochastic Approximation: Adaptive to Error Bound Conditions. In *Advances in Neural Information Processing Systems 31 (NeurIPS)*, pp. 4678–4689, 2018.
75. Pengcheng Li, Jinfeng Yi, and **Lijun Zhang**. Query-Efficient Black-Box Attack by Active Learning. In *Proceedings of the 18th IEEE International Conference on Data Mining (ICDM)*, pp. 1200–1205, 2018.
76. **Lijun Zhang**, Tianbao Yang, Rong Jin, and Zhi-Hua Zhou. Dynamic Regret of Strongly Adaptive Methods. In *Proceedings of the 35th International Conference on Machine Learning (ICML)*, pp. 5882–5891, 2018.

77. Guanghui Wang, Dakuan Zhao, and **Lijun Zhang**. Minimizing Adaptive Regret with One Gradient per Iteration. In *Proceedings of the 27th International Joint Conference on Artificial Intelligence (IJCAI)*, pp. 2762–2768, 2018.
78. Yuanyu Wan, Nan Wei, and **Lijun Zhang**. Efficient Adaptive Online Learning via Frequent Directions. In *Proceedings of the 27th International Joint Conference on Artificial Intelligence (IJCAI)*, pp. 2748–2754, 2018.
79. Yuanyu Wan, and **Lijun Zhang**. Accelerating Adaptive Online Learning by Matrix Approximation. In *Advances in Knowledge Discovery and Data Mining (PAKDD)*, pp. 405–417, 2018.
80. Tianbao Yang, Zhe Li, and **Lijun Zhang**. A Simple Analysis for Exp-concave Empirical Minimization with Arbitrary Convex Regularizer. In *Proceedings of the 21st International Conference on Artificial Intelligence and Statistics (AISTATS)*, pp. 445–453, 2018.
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#### INVITED TALKS

- Learning from Multiple Distributions: GDRO and MERO, LAMDA & RIKEN-AIP Joint Workshop on Machine Learning.
- Group Distributionally Robust Optimization, The 4th Conference on Big Data and Artificial Intelligence Organized by CSIAM (**CSIAM-BDAI 2023**).
- Smoothed Online Learning, The 3rd Conference on Big Data and Artificial Intelligence Organized by CSIAM (**CSIAM-BDAI 2021**).
- Online Learning in Changing Environments, Early Career Spotlight Talks of the 29th International Joint Conference on Artificial Intelligence (**IJCAI 2020**).
- Adaptive Regret for Online Learning, Microsoft Research Asia Academic Day 2019.
- Learning under Heavy-tailed Distributions, The 2nd International Symposium on Image Computing and Digital Medicine (**ISICDM 2018**).
- Efficient Online Learning for Dynamic Environments, The 1st Conference on Big Data and Artificial Intelligence Organized by CSIAM (**CSIAM-BDAI 2018**).

- Efficient Online Learning for Dynamic Environments, 2018 International Workshop on Signal Processing, Optimization and Control (**SPOC 2018**).
- Online Learning and Applications, The 1st International Symposium on Image Computing and Digital Medicine (**ISICDM 2017**).
- Fast Rates for Empirical Risk Minimization: Beyond the  $O(1/n)$  Risk Bound, The 16th China Conference on Machine Learning (**CCML 2017**).
- Online Learning in Dynamic Environment, The 2nd Youth Symposium on Scientific and Engineering Computing (**YSSEC 2016**).
- Online Stochastic Linear Optimization under One-bit Feedback, The 6th Vision and Learning Seminar (**VALSE 2016**).
- Randomized Algorithms for Large-scale Convex Optimization, 2016 Nanjing Workshop on Numerical Optimization with Applications.
- Stochastic Optimization for Large-scale Machine Learning, The 13rd Chinese Workshop on Machine Learning and Applications (**MLA 2015**).
- Randomized Algorithms for Large-scale Convex Optimization, The 2nd Chinese Workshop on Evolutionary Computation and Learning (**ECOLE 2015**).