

* - Corresponding authors
(α - β) - Alphabetical ordering

Note: Starting from 2022, the authorship of all of my papers is ordered alphabetically, with one single exception [4], since Yasong insisted on being listed as the second author.

Publication list of Tianyu Wang

- [1] (α - β) Yasong Feng, Zengfeng Huang*, and **Tianyu Wang***, “Lipschitz bandits with batched feedback,” *IEEE Transactions on Information Theory*, vol. 70, no. 3, pp. 2154–2176, 2024, (short version in NeurIPS2022).
- [2] (α - β) Yu Liu, Yunlu Shu, and **Tianyu Wang***, “Batched stochastic bandit for nondegenerate functions,” May 2024. arXiv: [2405.05733 \[stat.ML\]](#).
- [3] (α - β) **Tianyu Wang***, Zicheng Wang, and Jiajia Yu, “Zeroth-order low-rank hessian estimation via matrix recovery,” Feb. 2024. arXiv: [2402.05385 \[math.OC\]](#).
- [4] **Tianyu Wang*** and Yasong Feng, “Convergence rates of zeroth order gradient descent for lo-jasiewicz functions,” *INFORMS Journal on Computing*, 2024. DOI: [10.1287/ijoc.2023.0247](#).
- [5] (α - β) Chuying Han, Yasong Feng, and **Tianyu Wang***, “From random search to bandit learning in metric measure spaces,” May 2023. arXiv: [2305.11509 \[cs.LG\]](#).
- [6] (α - β) Weibin Peng and **Tianyu Wang***, “The Nesterov-Spokoiny acceleration achieves strict $o(1/k^2)$ convergence,” Aug. 2023. arXiv: [2308.14314 \[math.OC\]](#).
- [7] (α - β) Yasong Feng, Yifan Jiang, **Tianyu Wang***, and Zhiliang Ying, “The anytime convergence of stochastic gradient descent with momentum: From a continuous-time perspective,” Oct. 2023. arXiv: [2310.19598 \[math.OC\]](#).
- [8] (α - β) Yasong Feng and **Tianyu Wang***, “Stochastic zeroth-order gradient and Hessian estimators: variance reduction and refined bias bounds,” *Information and Inference: A Journal of the IMA*, vol. 12, no. 3, May 2023.
- [9] Yasong Feng, Weijian Luo, Yimin Huang*, and **Tianyu Wang***, “A lipschitz bandits approach for continuous HyperParameter optimization,” Feb. 2023. arXiv: [2302.01539 \[cs.LG\]](#).
- [10] (α - β) Yasong Feng, Zengfeng Huang*, and **Tianyu Wang***, “Lipschitz bandits with batched feedback,” in *Advances in Neural Information Processing Systems*, vol. 35, 2022, pp. 19 836–19 848, (Spotlight presentation, long version in IEEE Trans. Inf. Theory).
- [11] **Tianyu Wang***, “On sharp stochastic zeroth-order Hessian estimators over Riemannian manifolds,” *Information and Inference: A Journal of the IMA*, vol. 12, no. 2, pp. 787–813, Oct. 2022.
- [12] **Tianyu Wang**, Marco Morucci, M. Usaid Awan, Yameng Liu, Sudeepa Roy, Cynthia Rudin*, and Alexander Volfovsky, “FLAME: A Fast Large-scale Almost Matching Exactly Approach to Causal Inference,” *Journal of Machine Learning Research*, vol. 22, no. 31, pp. 1–41, 2021.
- [13] Sean Sinclair, **Tianyu Wang**, Gauri Jain, Siddhartha Banerjee*, and Christina Yu*, “Adaptive Discretization for Model-Based Reinforcement Learning,” in *Advances in Neural Information Processing Systems*, vol. 33, 2020, pp. 3858–3871.
- [14] **Tianyu Wang**, Weicheng Ye, Dawei Geng, and Cynthia Rudin*, “Towards Practical Lipschitz Bandits,” in *Proceedings of the 2020 ACM-IMS on Foundations of Data Science Conference*, ser. FODS ’20, Association for Computing Machinery, 2020, pp. 129–138.
- [15] **Tianyu Wang*** and Cynthia Rudin, “Bandits for BMO Functions,” in *Proceedings of the 37th International Conference on Machine Learning*, ser. Proceedings of Machine Learning Research, vol. 119, 13–18 Jul 2020, pp. 9996–10 006.