

Publication list of Tianyu Wang

- [1] Tianyu Wang and Yasong Feng, “Convergence Rates of Zeroth-order Gradient Descent for Łojasiewicz Functions,” *INFORMS Journal on Computing*, DOI: [10.1287/ijoc.2023.2047](https://doi.org/10.1287/ijoc.2023.2047).
- [2] 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 presented in NeurIPS 2022 as spotlight).
- [3] 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, 2023.
- [4] 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, 2023.
- [5] 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.)
- [6] 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.
- [7] 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.
- [8] 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.
- [9] 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.