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Publication list of Tianyu Wang

[1] Yu Liu†, Yunlu Shu†, and **Tianyu Wang***, "Batched stochastic bandit for nondegenerate functions," *IEEE Transactions on Information Theory*, pp. 1–1, 2025. DOI: 10.1109/TIT.2025.3559092.

[2] **Tianyu Wang*** and Yasong Feng, "Convergence rates of zeroth order gradient descent for Łojasiewicz functions," *INFORMS Journal on Computing*, vol. 36, no. 6, pp. 1611–1633, 2024.

[3] 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).

[4] 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, pp. 1514–1545, May 2023.

[5] **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.

[6] 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).

[7] **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.

[8] 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.

[9] **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.

[10] **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.