IDENTIFYING INFORMATION:

NAME: Zhang, Hongyang Ryan

ORCID iD: https://orcid.org/0009-0005-9118-8516

POSITION TITLE: Assistant Professor of Computer Science

PRIMARY ORGANIZATION AND LOCATION: Northeastern University, Boston, Massachusetts, United States

Professional Preparation:

ORGANIZATION AND LOCATION	DEGREE (if applicable)	RECEIPT DATE	FIELD OF STUDY
University of Pennsylvania, Philadelphia, Pennsylvania, United States	Postdoctoral Fellow	10/2019 - 07/2020	Statistics and Data Science
Stanford University, Boston, Massachusetts, United States	PHD	09/2019	Computer Science

Appointments and Positions

2020 - present   Assistant Professor of Computer Science, Northeastern University, Boston, Massachusetts, United States

Products

Products Most Closely Related to the Proposed Project

1. Li Y, Ma T, Zhang H. Algorithmic Regularization in Over-parameterized Matrix Sensing and Neural Networks with Quadratic Activations. The 31st Annual Conference On Learning Theory; 2018. Available from: https://proceedings.mlr.press/v75/li18a.html

2. Li Y, Ma T, Zhang HR. Learning Over-Parametrized Two-Layer Neural Networks beyond NTK. The 33rd Annual Conference on Learning Theory; 2020. Available from: https://proceedings.mlr.press/v125/li20a.html

3. Ju H, Li D, Zhang HR. Robust Fine-tuning of Deep Neural Networks with Hessian-based Generalization Guarantees. International Conference on Machine Learning; 2022. Available from: https://proceedings.mlr.press/v162/ju22a.html

4. Ju H, Li D, Sharma A, Zhang HR. Generalization in Graph Neural Networks: Improved PAC-Bayesian Bounds on Graph Diffusion. International Conference on Artificial Intelligence and Statistics; 2023. Available from: https://proceedings.mlr.press/v206/ju23a.html

5. Nippani A, Li D, Ju H, Koutsopoulos HN, Zhang HR. Graph Neural Networks for Road Safety Modeling: Datasets and Evaluations for Accident Analysis. Advances in Neural Information Processing Systems; 2023. Available from: https://openreview.net/forum?id=UQ8pDKcXTq

Other Significant Products, Whether or Not Related to the Proposed Project

1. Zhang H, Lofgren P, Goel A. Approximate Personalized PageRank on Dynamic Graphs. Proceedings of the 22nd ACM SIGKDD international conference on knowledge discovery and data mining; 2016. Available from: https://dl.acm.org/doi/10.1145/2939672.2939804

2. Zhang HR, Sharan V, Charikar M, Liang Y. Recovery Guarantees For Quadratic Tensors With Sparse Observations. The 22nd International Conference on Artificial Intelligence and Statistics;

2019. Available from: https://proceedings.mlr.press/v89/zhang19h.html

3. Li D, Zhang HR. Improved Regularization and Robustness for Fine-tuning in Neural Networks. Advances in Neural Information Processing Systems; 2021. Available from: https://openreview.net/forum?id=QX32YlxrQJc

4. Li D, Ju H, Sharma A, Zhang HR. Boosting Multitask Learning on Graphs through Higher-Order Task Affinities. Proceedings of the 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining; 2023. Available from: https://dl.acm.org/doi/10.1145/3580305.3599265

5. Li D, Nguyen H, Zhang HR. Identification of Negative Transfers in Multitask Learning Using Surrogate Models. Transactions on Machine Learning Research (Featured Certification). 2023. Available from: https://openreview.net/forum?id=KgfFAI9f3E

Certification:

I certify that the information provided is current, accurate, and complete. This includes but is not limited to current, pending, and other support (both foreign and domestic) as defined in 42 U.S.C. § 6605.

I also certify that, at the time of submission, I am not a party to a malign foreign talent recruitment program.

Misrepresentations and/or omissions may be subject to prosecution and liability pursuant to, but not limited to, 18 U.S.C. §§ 287, 1001, 1031 and 31 U.S.C. §§ 3729-3733 and 3802.

Certified by Zhang, Hongyang Ryan in SciENcv on 2024-04-26 16:06:18