

# Xiangyu Guo

(Xiang-Yu Guo)

Ph.D. Candidate  
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## Education

Ph.D. in Computer Science, SUNY Buffalo, U.S., 2017—present.

Advisor: Shi Li

M.S. in Computer Science, Nanjing University, China, 2017.

Advisor: Wei Wang

B.E. in Electronic Engineering, Xidian University, China, 2014.

## Research Interests

Approximation Algorithms, Combinatorial Optimization, Machine Learning,  
and Theoretical Computer Science in general.

## Teaching

Instructor, CSE 331: *Algorithm and Complexity*, SUNY Buffalo, Summer 2020.

Teaching Assistant, CSE 431/531: *Algorithm Design & Analysis*, SUNY Buffalo, Fall 2019.

Teaching Assistant, CSE 250: *Data Structures*, SUNY Buffalo, Fall 2017.

Teaching Assistant, *Advanced Algorithms*, Nanjing University, Fall 2016.

## Awards

Graduate Student 1st Year Achiever Award, 2018, SUNY Buffalo

Student Travel Award: CCC'18, STOC'18, NeurIPS'18.

## Publications

(\* means equal contribution, and ( $\alpha$ ) means authors are listed in alphabetical order)

### *Manuscripts*

1. ( $\alpha$ ) **X. Guo**, Janardhan Kulkarni, Shi Li, Jiayi Xian. Consistent  $k$ -Median: Simpler, Better, and Robust.  
*In Submission*

## Conferences

( $\alpha$ ) **X. Guo**, Janardhan Kulkarni, Shi Li, Jiayi Xian. On the Facility Location Problem in Online and Dynamic Models. In *International Conference on Approximation Algorithms for Combinatorial Optimization Problems (APPROX'20)*, 2020.

( $\alpha$ ) **X. Guo**, Bundit Laekhanukit, Guy Kortsarz, Shi Li, Daniel Vaz, Jiayi Xian. On Approximating Degree-Bounded Network Design Problems. In *International Conference on Approximation Algorithms for Combinatorial Optimization Problems (APPROX'20)*, 2020.

\*Di Wang, \***X. Guo**, Shi Li, Jinhui Xu. Scalable Estimating Stochastic Linear Combination of Non-linear Regressions. In *Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI'20)*, 2020.

( $\alpha$ ) **X. Guo**, Shi Li. Distributed  $k$ -Clustering for Data with Heavy Noise. In *Advances in Neural Information Processing Systems 31 (NeurIPS'18, spotlight paper)*, 2018.

Yang Yang, De-Chuan Zhan, **X.-Y. Guo**, Yuan Jiang. Modal Consistency based Pre-trained Multi-Model Reuse. In *Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI'17)*, 2017.

Wei Wang, **X.-Y. Guo**, Shao-Yuan Li, Yuan Jiang, Zhi-Hua Zhou. Obtaining High-quality Label by Distinguishing between Easy and Hard Items in Crowdsourcing. In *Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI'17)*, 2017

## Journals

\*Di Wang, \***X. Guo**, Shi Li, Jinhui Xu. Robust High Dimensional Expectation Maximization Algorithm via Trimmed Hard Thresholding. **Machine Learning**, 2020

\*Di Wang, \***X. Guo**, Chaowen Guan, Shi Li, Jinhui Xu. Estimating stochastic linear combination of non-linear regressions efficiently and scalably. **Neurocomputing**, 2020.