Xiangyu Guo
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Ph.D. Candidate
State University of New York at Buffalo
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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.

Professional Service

Reviewer for NeurIPS, ICML, AAAI, IJCAI, ICALP, Journal of Combinatorial Optimization, Journal of Computer and System Science, Discrete Applied Mathematics.

Publications

(* means equal contribution, and (α) means authors are listed in alphabetical order)

Manuscripts

(α) **X. Guo**, Shi Li, Kelin Luo, Yuhao Zhang. Online Food Delivery to Minimize Maximum Flow Time. *In submission*.

(α) **X. Guo**, Kelin Luo, Zhihao Gavin Tang, Yuhao Zhang. Online Food Delivery on Stars. *In submission*

(α) **X. Guo**, Kelin Luo. The Online Car-sharing Problem. *In submission*

Conferences

(α) Chaitanya Agarwal, Syamantak Das, **X. Guo**, Kelin Luo. The Multi-vehicle Ride-sharing Problem. In *The 15th International Conference on Web Search and Data Mining* (**WSDM**'22), 2022.

(α) **X. Guo**, Janardhan Kulkarni, Shi Li, Jiayi Xian. Consistent k-Median: Simpler, Better, and Robust. In *The 24th International Conference on Artificial Intelligence and Statistics* (**AISTATS**'21), 2021.

(α) **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.

(α) **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.

(α) **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.