

## Baojian Zhou

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## Education

2020	<b>Ph.D. in Computer Science</b> , University at Albany, Albany, NY
Thesis title:	<i>Optimization methods for learning graph-structured sparse models</i>
Committee:	<i>Petko Bogdanov, Feng Chen, Siwei Lyu, Won Namgoong, and Yiming Ying</i>
Committee chair:	<i>Won Namgoong</i>
Thesis advisor:	<i>Feng Chen</i>
Date of defense:	<i>12/16/2019</i>
2020	<b>M.A. in Mathematics</b> , University at Albany, Albany, NY
2014	<b>MSc. in Computer Science</b> . Beihang University, Beijing, China
2011	<b>B.S. in Computer Science</b> , Anhui University, Hefei, China

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## Teaching experiences

Fall-2019	Introduction to Computer Science (Lab Instructor)
Spring-2019	Data mining (Teaching Assistant)
Fall-2018	Algorithms and Data Structures (Lab Instructor)
Fall-2018	Numerical Analysis (Teaching Assistant)

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## Research Activities

- Served as a research track program committee in KDD 2020.
  - Served as a reviewer in ICML 2020, NIPS 2020, KDD 2018, KDD 2017.
  - Oral presentation: Dual Averaging Method for Online Graph-structured Sparsity. Proceedings of the 25th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD, 2019), Anchorage, Alaska, USA.
  - Oral presentation: Stochastic Iterative Hard Thresholding for Graph-structured Sparsity Optimization. Proceedings of the 36th International Conference on Machine Learning (ICML, 2019), Long Beach, California, USA.
  - Invited talk: A graph-structured optimization framework for pattern detection in attributed networks, 2nd International Workshop on the Social Web for Environmental and Ecological Monitoring, SWEEM 2017, Troy, NY, USA.
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## Honors and Awards

- **Dean's Scholarship Award**, 2019, Department of Mathematics, University at Albany, SUNY.
- Student Travel Award, KDD, 2019, Anchorage, Alaska, USA.
- Student Travel Award, ICML, 2019, Long Beach, California, USA.

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## Publications

- [Under Review] **Baojian Zhou** and Steven Skiena. Does it pay to optimize AUC?, *submitted* to Thirty-Fourth Annual Conference on Neural Information Processing Systems, (NeurIPS 2020)
- [Under Review] **Baojian Zhou**, Yiming Ying, and Steven Skiena. Online AUC Optimization for Sparse High-Dimensional Datasets, *submitted* to Proceedings of the 20th International Conference on Data Mining, 2020
- [Under Review] Neyo Yang, **Baojian Zhou**, and Yiming Ying. Stochastic Hard Thresholding Algorithms for AUC Maximization, *submitted* to Proceedings of the 20th International Conference on Data Mining, 2020
- [SDM'20] Tao, Rongrong, **Baojian Zhou**, Feng Chen, David Mares, Patrick Butler, Naren Ramakrishnan, and Ryan Kennedy. Detecting Media Self-Censorship without Explicit Training Data. Proceedings of the 2020 SIAM International Conference on Data Mining, 2020. (**Acceptance rate: 22.7%**)
- [KDD'19] **Baojian Zhou**, Feng Chen, and Yiming Ying. Dual Averaging Method for Online Graph-structured Sparsity. Proceedings of the 25th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining, pp. 436-446. 2019. (**Oral presentation, acceptance rate: 9.2%**)
- [ICML'19] **Baojian Zhou**, Feng Chen, and Yiming Ying. Stochastic Iterative Hard Thresholding for Graph-structured Sparsity Optimization. Proceedings of the 36th International Conference on Machine Learning, pp. 7563-7573. 2019. (**Acceptance rate: 22.6%**)
- [CNS'18] **Baojian Zhou**, Boyang Hu, Qiben Yan, Adil Alim, Feng Chen, and Huacheng Zeng. PSCluster: Differentially Private Spatial Cluster Detection for Mobile Crowdsourcing Applications. IEEE Conference on Communications and Network Security, 2018.
- [TKDE'18] Nannan Wu, Feng Chen, Jianxin Li, Jin-Peng Huai, **Baojian Zhou**, Bo Li, and Naren Ramakrishnan. A Nonparametric Approach to Uncovering Connected Anomalies by Tree Shaped Priors, IEEE Transactions on Knowledge and Data Engineering, 2018
- [ICDM'17] Feng Chen, **Baojian Zhou**, Adil Alim, and Liang Zhao. A generic framework for interesting subspace cluster detection in multi-attributed networks. In 2017 IEEE 17th International Conference on Data Mining, pp. 41-50, 2017. (**Long paper, acceptance rate: 9.25%**)
- [CCPE'17] Jieyu Zhao, Jianxin Li, **Baojian Zhou**, Feng Chen, Paul Tomchik, Wuyang Ju. Parallel algorithms for anomalous subgraph detection, Concurrency and Computation: Practice and Experience 29.3 2017.
- [ICDM'16] **Baojian Zhou**, and Feng Chen. Graph-structured sparse optimization for connected subgraph detection. In 2016 IEEE 16th International Conference on Data Mining, pp. 709-718, 2016. (**Regular, acceptance rate: 8.4%**)
- [CIKM'16] Yu Liu, **Baojian Zhou**, Feng Chen, and David W. Cheung. Graph topic scan statistic for spatial event detection. In Proceedings of the 25th ACM International on Conference on Information and Knowledge Management, pp. 489-498, 2016. (**Long paper, acceptance rate: 17.6%**)
- [IJCAI'16] Feng Chen, and **Baojian Zhou**. A generalized matching pursuit approach for graph-structured sparsity. In Proceedings of the 25th International Joint Conference on Artificial Intelligence, pp. 1389-1395, 2016. (**Acceptance rate: 24%**)
- [AAAI'16] Nannan Wu, Feng Chen, Jianxin Li, **Baojian Zhou**, and Naren Ramakrishnan. Efficient nonparametric subgraph detection using tree shaped priors. In Proceedings of the 30th AAAI Conference on Artificial Intelligence, pp. 1352-1358. 2016. (**Acceptance rate: 25.7%**)