

# Shuo Xing

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📄 <https://shuoxing98.github.io/>

## Education

- 2023 – Now **Texas A&M University**, College Station, TX, United States  
**PhD Student** in Computer Science, Advisor: *Dr. Victoria Crawford*  
*Research:* Submodular Optimization, Machine Learning  
*Overall GPA:* 4.0/4.0
- 2022 – 2023 **The Hong Kong University of Science and Technology**, Hong Kong SAR  
**Research Intern**, Advisor: *Dr. Tong Zhang*  
*Research:* Natural Language Processing, Large Language Models, Domain Generalization, Machine Learning
- 2020 – 2023 **Nankai University**, Tianjin, China  
**Master of Science** in Applied Mathematics, Advisor: *Dr. Peixin Ye*  
*Research:* Approximation Theory, Learning Theory, Machine Learning  
*Overall GPA:* 89.95/100  
*Awards:* Outstanding Graduation Thesis, Outstanding Graduate, First-Class Scholarship (Title Sponsor: HUAWEI)
- 2016 – 2020 **Ningxia University**, Ningxia, China  
**Bachelor of Science** in Information and Computing Science, Advisor: *Dr. Yanbing Fang*  
*Research:* Financial Mathematics, Machine Learning  
*Overall GPA:* 3.733/4.0 *Major GPA:* 3.78/4.0 (Rank: 1/153)  
*Awards:* Outstanding Graduation Thesis, Outstanding Graduate

## Publications

- arXiv 2023 Wenjing Chen, **Shuo Xing**, and Victoria G. Crawford. A Threshold Greedy Algorithm for Noisy Submodular Maximization. In arXiv preprint arXiv:2312.00155. 2023.
- arXiv 2023 Rui Pan<sup>♡</sup>, **Shuo Xing**<sup>♡</sup>, Shizhe Diao<sup>♡</sup>, Wenhe Sun, Xiang Liu, Kashun Shum, Renjie Pi, Jipeng Zhang, and Tong Zhang. Plum: Prompt Learning using Metaheuristic. In arXiv preprint arXiv:2311.08364. 2023. (♡ indicates equal contribution)

- Axioms 2023 Chunfang Shao, Xiujie Wei, Peixin Ye, and **Shuo Xing**<sup>†</sup>. Efficiency of Orthogonal Matching Pursuit for Group Sparse Recovery. In Axioms. 2023. († indicates the corresponding author)
- IJWMIP 2023 Wenhui Zhang, Peixin Ye, and **Shuo Xing**. Optimality of the Rescaled Pure Greedy Learning Algorithm. In the International Journal of Wavelets, Multiresolution and Information Processing. 2023.
- Axioms 2022 Wenhui Zhang, Peixin Ye, **Shuo Xing**, and Xu Xu. Optimality of the Approximation and Learning by the Rescaled Pure Super Greedy Algorithms. In Axioms. 2022.
- Axioms 2022 Chunfang Shao, Jincai Chang, Peixin Ye, Wenhui Zhang, and **Shuo Xing**. Almost Optimality of the Orthogonal Super Greedy Algorithm for  $\mu$ -Coherent Dictionaries. In Axioms. 2022.

## Skills

- Programing MPI (at TAMU), Python and Pythorch (at HKUST), C and Matlab (at Ningxia University)
- Language Chinese (native), and English (fluent)

## Services

- Reviewers 2024: Journal of Combinatorial Optimization (JOCO)  
2023: Journal of Combinatorial Optimization (JOCO)