

## Jiaxu Cui (崔佳旭)

(Postdoc)

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### Summary

I am a postdoc in Jilin University, selected into Jilin University "Dingxin Scholar" Program. I received the B.Sc., M.S. and Ph.D. degrees from Jilin University in 2013, 2016, and 2021, respectively. I have visited Dr. Xia Hu's group at Texas A&M in 2018 and Prof. Jiming Liu's group at Hong Kong Baptist University in 2019-2020, and worked as an intern in Huawei in 2020-2021. My thesis was awarded as Excellent Doctoral Thesis by the Jilin University in 2021. My survey paper has been awarded as the "High Impact Paper of Journal of Software in 2020". I participated in the 1ST CHINA POSTDOCTORAL INNOVATION & ENTREPRENEURSHIP COMPETITION, and won the WINNING prize (top 14%). My main research interests include complex network analysis and optimization, intelligent optimization and network representation learning. I have published over 10 high-quality papers in international conferences and journals including AAAI, IEEE Trans. Comput. Aided Des. Integr. Circuits Syst., IEEE Trans. Neural Networks Learn. Syst. (IF=14.3), and have served as reviewers in several major academic conferences and journals, including AAAI, IJCAI, TNNLS, TBD, IJMLC, and TWEB.

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### Education Background

2016 – 2021: Ph.D.S. major in Computer Software and Theory, College of Computer Science and Technology, Jilin University, China. Supervisor: Prof. Bo Yang

2013 – 2016: M.S. major in Software Engineering, Software College of Jilin University, China. Supervisor: Prof. Yonggang Zhang

2009 – 2013: B.S. major in Software Engineering, Software College of Jilin University, China.

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### Research Experience

2021.07 – present: Postdoc in Jilin University, selected into Jilin University "Dingxin Scholar" Program. Under the guidance of Prof. Bo Yang.

2020.10 – 2021.01: Worked as an intern in Huawei.

2019.08 – 2020.06: Visited Prof. Jiming Liu's group at Hong Kong Baptist University as an exchange student.

2018.07 – 2018.10: Visited Dr. Xia Hu's group at Texas A&M as a visiting student.

My research interests include Bayesian optimization, complex network analysis, intelligent optimization, network representation learning.

**My research projects include:**

- China Postdoctoral Science Foundation Funded Project under Grant No.2021M701388, 2022-2023
- The Sixth Jilin Province Youth Science and Technology Talent Support Project
- Jilin University "Dingxin Scholar" Support Project

Research projects I am participating in and participated in include:

- National Key R&D Program of China under Grant Nos. 2021ZD0112501 and 2021ZD0112502;
- National Natural Science Foundation of China under Grant Nos. 62172185 and 61876069;
- Jilin Province Key Scientific and Technological Research and Development Project: Research, development and application of fast knowledge sharing system in the era of big data and mobile Internet (20180201067GX);
- Jilin Province Key Scientific and Technological Research and Development Project (20180201044GX);
- Jilin Province Natural Science Foundation: 20200201036JC;
- Hong Kong Research Grants Council (RGC) under project RGC/HKBU12201318;
- Cooperation project with Huawei: Adaptive intelligent fault detection and diagnosis system based on prior knowledge.

### **Honors & Scholarships**

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- 2022: Our survey paper "Survey on Bayesian Optimization Methodology and Applications" has been awarded as the "High Impact Paper of Journal of Software in 2020"
- 2021: Participated in the 1ST CHINA POSTDOCTORAL INNOVATION & ENTREPRENEURSHIP COMPETITION, and won the WINNING prize (top 14%).
- 2021: My thesis was awarded as Excellent Doctoral Thesis by the Jilin University. Doctoral Thesis: Bayesian Graph Optimization: Cost-Aware Network Optimization Theory and Method. Supervisor: Prof. Bo Yang
- 2018 First prize at the 11th Ph.D. Academic Forum of Jilin University
- 2009-2010, 2011-2012, 2018, 2019 Academic Scholarship

### **Publications**

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- [1]. Xiaohui Wei, Bingyi Sun, **Jiaxu Cui\***, Meikang Qiu. Location-and-Preference Joint Prediction for Task Assignment in Spatial Crowdsourcing. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (IEEE TCAD), 2022. (CCF A)
- [2]. **Jiaxu Cui**, Bo Yang, Bingyi Sun, and Jiming Liu. Cost-Aware Graph Generation: A Deep Bayesian Optimization Approach. The 35th AAAI Conference on Artificial Intelligence (AAAI-21), 2021. (CCF A)
- [3]. **Jiaxu Cui**, Bo Yang and Xia Hu. Deep Bayesian Optimization on Attributed Graphs. The 33rd AAAI Conference on Artificial Intelligence (AAAI-19), 2019. (CCF A)
- [4]. **Jiaxu Cui**, Bo Yang, Bingyi Sun, Xia Hu and Jiming Liu. Scalable and Parallel Deep Bayesian Optimization on Attributed Graphs. IEEE Transactions on Neural Networks and Learning Systems (TNNLS), 2022, 33(1): 103 – 116. (Q1, IF 14.3, CCF B)
- [5]. **Jiaxu Cui**, Qi Tan, Chunxu Zhang, and Bo Yang. A Novel Framework of Graph Bayesian Optimization and Its Applications to Real-World Network Analysis. Expert Systems with Applications (ESWA). 2021, 170, 114524. (Q1, IF 6.954, CCF C)
- [6]. **Jiaxu Cui**, Bo Yang. Survey on Bayesian Optimization Methodology and Applications (贝叶斯优化方法和应用综述). Ruan Jian Xue Bao/Journal of Software, 2018,29(10):3068-3090. **This survey paper has been awarded as the "High Impact Paper of Journal of Software in 2020"**.

For more information, please visit: <https://csjtx1021.github.io>

## **Services**

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I have been invited to serve as program committee members or reviewers in the following major academic conferences and journals:

- AAAI Conference on Artificial Intelligence (AAAI) 2022-2023
- International Joint Conference on Artificial Intelligence (IJCAI) 2021-2022
- IEEE Transactions on Neural Networks and Learning Systems (TNNLS) 2020-2021
- IEEE Transactions on Big Data (TBD) 2021
- ACM Transactions on the Web (TWEB) 2022
- Invited as a Guest Editor of “Special Issue on Recent Advances in Graph Learning: Theory, Algorithms, Applications, and Systems” in International Journal of Machine Learning and Cybernetics (IJMLC) 2022