

# JIAQI ZHANG

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## EDUCATION

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**Southeast University, China**  
Bachelor of Software Engineering

*Sep. 2015 - Jun. 2020*  
GPA: **3.56**/4.00

**Brown University, United States**  
Doctoral of Computer Science

*Sep. 2021 - Present*

## RESEARCH INTEREST

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**Machine Learning:** large-scale optimization, probabilistic graphical model

**Bioinformatics:** model interpretation, single-cell data analysis

## RESEARCH EXPERIENCE

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- [1] **Jiaqi Zhang** and Ritambhara Singh. Investigating the Complexity of Gene Co-expression Estimation for Single-cell Data. *Journal of Machine Learning for Modeling and Computing*, 2023.
- [2] Beilun Wang, **Jiaqi Zhang**, Haoqing Xu, and Te Tao. Fast and scalable learning of sparse changes in high-dimensional graphical model structure. *Neurocomputing*, 2022.
- [3] Qianli Yang, Zhongqiao Lin, Wenyi Zhang, Jianshu Li, Xiyuan Chen, **Jiaqi Zhang**, and Tianming Yang. Monkey plays Pac-Man with compositional strategies and hierarchical decision-making. *Elife*, 2022.
- [4] Beilun Wang, **Jiaqi Zhang**, Yan Zhang, Meng Wang, and Sen Wang. Scalable Estimator for Multi-task Gaussian Graphical Models Based in an IoT Network. *ACM Transactions on Sensor Networks*, 17(3), June 2021.
- [5] (\*Selected Abstract\*) Qianli Yang, **Jiaqi Zhang**, Jianshu Li, Wenyi Zhang, Ce Ma, and Tianming Yang. Monkey can play Pac-Man with dynamical hybrid strategy. *Computational and Systems Neuroscience (Cosyne)*, 2021.
- [6] **Jiaqi Zhang**, Meng Wang, Qinchu Li, Sen Wang, Xiaojun Chang, and Beilun Wang. Quadratic Sparse Gaussian Graphical Model Estimation Method for Massive Variables. *International Joint Conferences on Artificial Intelligence Organization (IJCAI)*, 2020.

## PROJECT EXPERIENCE

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**A Distributed Repaying Loan Ability Evaluating System Based on Gradient Boosting Machine** 2018

- ◇ Responsible for software architecture and backend modules implementation.
- ◇ Project for a seminar course; the third prize.

**An Employee Management System** 2017

- ◇ Responsible for software architecture and core modules implementation.
- ◇ Project for a seminar course; the third prize.