

# YUHAN JIAO

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## RESEARCH INTERESTS

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**Pattern Recognition:** graph kernels, graph embedding for graph classification

**Deep Learning:** graph convolutional networks, graph autoencoder

## EDUCATION

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**Central University of Finance and Economics, Beijing, China**

*Sept. 2018 - Present*

M.S. Degree, Software Engineering

Department of Computer Science

Supervisor: Prof. Lu Bai

**Central University of Finance and Economics, Beijing, China**

*Sept. 2014 - Jul. 2018*

B.S. Degree, Computer Science

Department of Computer Science

Supervisor: Dr. Lixin Cui & Prof. Lu Bai

## PUBLICATIONS

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† indicates equal contribution, \* indicates my supervisor

- **Learning Backtrackless Aligned-Spatial Graph Convolutional Networks for Graph Classification**  
*Lu Bai\**, *Lixin Cui\**, **Yuhang Jiao**, *Luca Rossi*, *Jian Cheng*, *Edwin R. Hancock*  
Submitted to Transactions on Pattern Analysis and Machine Intelligence(**TPAMI**), Under Review, 2019
- **A Quantum Spatial Graph Convolutional Neural Network using Quantum Passing Information**  
Pre-print arXiv:1809.01090  
*Lu Bai\**†, **Yuhang Jiao**†, *Luca Rossi*, *Lixin Cui*, *Jian Cheng*, *Edwin R. Hancock*  
Submitted to Transactions on Neural Networks and Learning Systems(**TNNLS**), Under Review, 2019
- **Learning Aligned-Spatial Graph Convolutional Networks for Graph Classification**  
Pre-print arXiv:1904.04238  
*Lu Bai\**†, **Yuhang Jiao**†, *Lixin Cui*, *Edwin R. Hancock*  
in European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases(**ECML-PKDD**), Oral, 2019
- **A Deep Hybrid Graph Kernel Through Deep Learning Networks**  
*Lixin Cui\**, *Lu Bai\**, *Luca Rossi*, *Yue Wang*, **Yuhang Jiao**, *Edwin R. Hancock*  
in International Conference on Pattern Recognition(**ICPR**), Oral, 2018.
- **Analyzing Time Series from Chinese Financial Market Using a Linear-Time Graph Kernel**  
**Yuhang Jiao**, *Lixin Cui*, *Lu Bai*, *Yue Wang*  
in Structural, Syntactic, and Statistical Pattern Recognition(**S+SSPR**), Oral, 2018.
- **A Preliminary Survey of Analyzing Dynamic Time-Varying Financial Networks Using Graph Kernels**  
*Lixin Cui\**, *Lu Bai\**, *Luca Rossi*, *Zhihong Zhang*, **Yuhang Jiao**, *Edwin R. Hancock*  
in Structural, Syntactic, and Statistical Pattern Recognition(**S+SSPR**), Oral, 2018.

- **Adaptive Feature Selection Based on the Most Informative Graph-Based Features**  
*Lixin Cui\**, **Yuhang Jiao**, *Lu Bai*, *Luca Rossi*, *Edwin R. Hancock*  
in Graph-Based Representations in Pattern Recognition(**GbRPR**), Oral, 2017.

## PROFESSIONAL EXPERIENCE

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### Research Intern

*Jul. 2019 to Present*

*Alibaba Group, Hangzhou, China*

- Graph representation learning for sales prediction tasks.
- Supervisor: Zhao Li, Ph.D

### Research Assistant

*Sept. 2018 to Present*

*Central University of Finance and Economics*

- Supervisor: Lu Bai, Ph.D

### Student Intern

*Sept. 2016 to Jul. 2018*

*Central University of Finance and Economics*

- Supervisor: Lixin Cui, Ph.D & Lu Bai, Ph.D

## GRANTS AND HONORS

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### 1. Outstanding Undergraduate Graduation Dissertation

*Jul. 2018, Beijing*

Description: Ranked top 2 in each Department.

### 2. Scholarship of Research and Innovation

*Sept. 2017-Jul. 2018*

Description: Ranked top 3 in each Department.

### 3. National Undergraduate Innovation Training Program

*Nov. 2016-Nov. 2017*

Description: First-Prize, No. NMOE201611002, 30 projects per year.

### 4. Scholarship of Research and Innovation

*Sept. 2016-Jul. 2017*

Description: Ranked top 3 in each Department.

### 5. Meritorious Winner of Mathematical Contest in Modeling

*Jul. 2016, Beijing*

Description: Ranked top 8%

## SKILLS

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### Programming

Python, Matlab, Java

### Deep Learning

Tensorflow, Scikit-Learn, Numpy, Matplotlib

### Language

Mandarin(first language), English(CET6, good reading and writing)

### Others

L<sup>A</sup>T<sub>E</sub>X, SQL, Microsoft Office