# XUGAN CHEN (陈栩淦)

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## EDUCATION

**Zhejiang University**                                    *Sep. 2016 - Jul. 2020*

School of Mathematical Sciences & Chu Kochen Honors College                *Zhejiang, China*

· B.S. in Mathematics and Applied Mathematics (with Honor)

· B.E. in Finance (with Honor)

· GPA: 3.85/4.0  (87.9/100)    Ranking: 1/16

**Yale University**                                       *Sep. 2019 - Dec. 2019*

Visiting Student Researcher, School of Management                      *New Haven, U.S.*

## INTEREST

The interdisciplinary field of Finance, Mathematics and Computer Science, including innovation, big data and machine learning in Finance, unstructured data analysis, text mining and information extraction.

## RESEARCH EXPERIENCES

**Yale Economics / Tobin Center, Yale University**              *Aug. 2020 - Present*

Pre-Doctoral Fellow, Advisor: Prof. Song Ma and Prof. Barbara Biasi

· Worked on the "The Education-Innovation Gap and Its Consequences for Growth and Inequality" project.

**Yale School of Management, Yale University**                  *Apr. 2019 - Present*

Research Assistant, Advisor: Prof. Song Ma and Prof. Barbara Biasi

· Provided computation and programming work on the big data approach to measure the education-innovation gap, to characterize the content of higher education courses and to investigate its consequences.

**School of Economics, Zhejiang University**                    *Jan. 2019 - Present*

Research Assistant, Advisor: Prof. Xingguo Luo

· Focused on the relation between insider trades and option market and explored the information transfer mechanism between stock market and options market.

**School of Economics, Zhejiang University**                   *Nov. 2018 - Jun. 2019*

Undergraduate Group Project, Advisor: Prof. Xingguo Luo

· Used a deep learning approach to investigate the option pricing. Proposed a new method of option pricing based on LSTM and showed better out-of-sample prediction than classic models.

**School of Mathematical Sciences, Zhejiang University**        *Feb. 2018 - May 2019*

Undergraduate Research Training, Advisor: Prof. Rongmao Zhang

· Conducted the research on "Estimation and Prediction of VaR and CVaR Based on GARCH Model".

· Proposed a new class of multivariate asymmetric High-Frequency-Based Volatility (HEAVY) models based on decomposing realized volatility and portraying the leverage effect using high frequency data. Performed statistical inference and multi-step prediction.

**School of Economics, Zhejiang University** *Sep. 2018 - Jan. 2019*

Undergraduate Research Training, Advisor: Prof. Yizhong Wang

· Researched on digital inclusive finance, specifically the digital credit system of Ant Financial.

· Explored the business model and risk control model of digital credit system through field visits, telephone interviews, etc. Collected data and used the econometric model to empirically analyze the effectiveness of digital credit system.

## WORKING PAPERS

"How Does Digital Inclusive Finance 'Inclusive'? Based on the Investigation and Analysis of Ant Financial Service Digital Credit System", with Yiwen Lu and Mengxuan Li.

– Second award in the 16th "Challenge Cup" College Students Extracurricular Academic Science and Technology Works Competition, 2019.

– First award of the 3rd National Digital Finance and Quantitative Financial Case Competition, 2019 (232 teams from universities across the country)

"Effect of Index Futures Restrictions on Interaction between Stock Index and Derivatives: Evidence from China", with Xingguo Luo.

## SKILLS

· Computer: Python, R, MATLAB, C++, SQL, Data Analysis and Visualization, Distributed Computing.

· Github: **https://github.com/wuganaa**

## AWARDS

*Scholarship*

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| 2019 | Provincial Government Scholarship, Education Department of Zhejiang, China (*Top 10%*) |
| 2018 | Provincial Government Scholarship, Education Department of Zhejiang, China (*Top 10%*) |
| | Excellent Student Cadre, Zhejiang University |
| | Scholarship of Social Work, Zhejiang University |
| 2017 | National Scholarship, Ministry of Education of the People's Republic of China (*Top 1%*) |
| | First-Class Scholarship for Outstanding Students, Zhejiang University (*Top 10%*) |

*Competition*

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|---|---|
| 2018 | Second Prize in National Finals of China Datathon Competition |
| | *(Focused on big data problems, 2,000+ students enrolled and 108 students were finalists)* |
| | Seventh Prize in the First UBS Global Quantitative Competition |
| | *(Focused on machine learning and finance, 1,000+ global students from nearly 300 universities)* |
| | The Honorable Mention Award of Mathematical Contest In Modeling |

## EXTRACURRICULAR EXPERIENCES

**Volunteer Western-China (Tibet) Supporting-Education Activities** *Jun. 2017 - Aug. 2017*

Volunteer teacher *Tibet, China*

**Qiushichao Student Associations, Zhejiang University** *Sep. 2016 - Jun. 2018*

Vice Director of Promotion and Planning Center *Zhejiang, China*

**Deepsense Wisdom Technology (Beijing) Co., Ltd.** *May 2018 - Dec. 2018*

Quantitative Researcher Intern *Beijing, China*

· Built up backtesting and trading system of digital currency quantitative backtesting.

· Researched and modeled quantitative trading strategy and conducted real trading.

**Xinge Network Technology (Shenzhen) Co., Ltd.** *Mar. 2018 - May 2018*

Quantitative Researcher Intern *Shenzhen, China*

· Completed data processing, conducted factor recurrence and multi-factor strategies.