

Mingzhen Lin

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EDUCATION

Nanjing University / College of Engineering and Applied Sciences

NANJING, CHINA

Materials Physics

Sep, 2014 – present

- **GPA:** 4.4/5 **rank:** 3/35
- **Courses:** Probability Theory and Mathematical Statistics, Linear Algebra, Discrete Math, C Programming and Data Structure, Numerical Method(Matlab), Big Data Economics(Python), UCB-CS61B(Java), Computer System and System Software
- **Scholarships & Awards:** University-level outstanding students, People's Scholarship from Nanjing University

ACADEMIC EXPERIENCE

The Numerical Simulation of Nonlinear Optical Process

NANJING, CHINA

First Author

Jan, 2018 – present

- Optimized algorithms and use Xeon Phi that delivers massive parallelism and vectorization performance to acquire better numerical simulation of nonlinear optical process

FOF Navigator - Fund Investment Adviser System

NANJING, CHINA

Team Leader

June, 2017 – Oct, 2017

- Spearheaded the development of the FOF Investment Adviser System to provide tailored investment strategies for clients. Used React+Redux framework for the frontend, STARUML for system modeling and Git/GitHub for managing the code. Contributed to the Android/iOS mobile App development using Java, Swift and C#
- Investigated machine-learning methods for forecasting the performance of funds based on historical data, including building the Random Forest model using 13 features, training the model using datasets from China Stock Market & Accounting Research, and validating that the Random Forest model predicts the next quarter's performance of funds with up to 97% accuracy
- Won the 1st place among 199 teams and Best Technology Achievement Award

The Arbitrage System for Gold Futures

NANJING, CHINA

Team Leader

June, 2016 – Sep, 2016

- Led the development of the Gold futures Arbitrage Trading system that integrates trading strategy development, trading execution and visualization
- Used Java, Python, SQL language as the development language of background server. Developed the PC client by JavaFX. Encapsulated information by JSON
- Used Matlab for constructing different models based on trading signals, grid trading method and Granger cointegration relation to predict the price of gold futures

The Mathematical Contest in Modeling

NANJING, CHINA

Team Member

Jan, 2016 – Feb, 2016

- Developed a time-dependent model that could determine the best alternative of alternatives that a private firm could adopt as a commercial opportunity to address the space debris problem
- Won Successfully Participation Award

EXTRA-CURRICULAR ACTIVITIES

Enactus China

NANJING, CHINA

Project Founder

Oct, 2014 – Jun, 2016

- Found public project to communicate with tea growers for recycling tea waste. Corporate with Nanjing Xuanwu disabled people center to create job opportunity for the disabled.

Nanjing University Students' Association Union

NANJING, CHINA

Member

Sep, 2014 – Jun, 2015

- Built relationships with potential supporters and donors for fundraising to support different initiatives. Worked with teammates on event organization for greater involvement of other colleges in Nanjing

SKILLS & HOBBIES

Skills: Enjoys writing Java/C/Python/Perl. Strong Linux administration skills (e.g. Bash, Apache, My/NoSQL. Solid knowledge of web technologies:HTML+CSS, XML, React + Redux, Spring Boot and JavaScript (mostly Angular and jQuery)

Hobbies: painting, art, Photography, typography (e.g. graphic design, L^AT_EX) and UI/UX-design