

# Di (Patrick) Lu

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1119 Maiden Lane Ct Apt 105, Ann Arbor, MI 48105 | (734) 239-0334 | qflu@umich.edu

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Belvedere Trading, LLC  
10 South Riverside Plaza #2100  
Chicago, IL 60606, USA

Dear hiring manager,

I am applying for the Options Volatility Quantitative Analyst Intern Position. As a first-year master's student in the University of Michigan's Quantitative Finance and Risk Management program with experience in strategy research and coding skills, I am interested in this opportunity to gain experience in option trading and modelling. The following skills and experiences will make me an asset to your team:

- **Familiarity with financial products:** During my internship at China Securities Strategy Research team, I prepared weekly market tracking report including all market indices from Asian, European and U.S. stock market. Based on that, I backtested common strategies with SAS to track their recent market performance. This hands-on experience helped me establish understanding of the market and products and honed my research skills with quantitative tools.
- **Experience with cultivating trading strategy:** My work experience at Huisheng-Guanghua Research Fund gave me the opportunity to translate cutting-edge academic findings into practice. One of my major contributions was testing the effectiveness of the Beneish M-score as a trading signal in Chinese market. I ran the strategy on the Ricequant platform to find that it was not effective as a single indicator but could become effective combined with other items. I would use this experience to assist in creating new strategy as part of your team at Belvedere.
- **Ability to handle large datasets:** Having worked on a data analysis project, I feel confident in my ability to handle with large datasets in R, draw statistical inference, and run models to determine most significant KPI indices. Starting with raw data in the operation system, I went through data cleaning and merging processes to make datasets ready for use and ran tentative progression at weekly meetings for discussion. I feel very comfortable dealing with data and will be an asset in the attempted and exploratory research process.

I hope to bring these skills and experiences to work with the options team at of Belvedere Trading. I look forward to talking with you about the internship and its expected role in contributing to Belvedere's team-oriented and innovative culture. Please feel free to contact me by phone or email.

Sincerely,  
Patrick Lu