

# ZHENG MA

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## EDUCATION

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**UNIVERSITY OF MINNESOTA, SCHOOL OF MATHEMATICS** MINNEAPOLIS, MN, USA  
Master of Financial Mathematics (GPA 3.74/4) September 2008 - June 2010 (Expected)

**NORTHWESTERN POLYTECHNICAL UNIVERSITY (NWPU)** XI'AN, SHAANXI, CHINA  
Bachelor of Science in Statistics September 2004 - June 2008

- Rank top 3 in my major and receive first-class scholarships every year.

## PROFESSIONAL EXPERIENCE

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**SCHOOL OF MATHEMATICS, UMN- TWIN CITIES** MINNEAPOLIS, MN, USA  
Graduate Student September 2008- Present

- Programmed Option Price Calculator by Matlab and C# using binomial, trinomial tree, Monte Carlo simulation and its improvement methods. Created a GUI for the calculator.

**SCHOOL OF SCIENCE, NWPU** XI'AN, SHAANXI, CHINA  
Undergraduate Student September 2007 - June 2008

- Took graduate courses like Wavelet Theory, Advanced time series.
- Studied on threshold vector error correction model dealing with the large random fluctuations of financial data. Improved the vector estimation and testing method.
- Used time series method to forecast the US accident data, programmed the Algorithms by C++ language.

**MATHEMATICAL MODELING INNOVATION CENTER, NWPU** XI'AN, SHAANXI, CHINA  
Group Leader March 2007- June 2007

- Collaborated with group members do research on the topic of "statistical analysis of table tennis competition", "Optimization of the publishing house resource", "fairness of the papers evaluation and improvement". Given applicable strategy and wrote papers.
- Win awards in the Mathematical Modeling Contest for three times.

## OTHER EXPERIENCE

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**UNIVERSITY SYMPHONY ORCHESTRA** XI'AN, SHAANXI, CHINA  
President September 2006-June 2008

- Led the team to successfully organize two concerts. In charge of concert preparation and organization. Overcame the problems like shortage of outlay and time.
- Awarded the "Star of Art" title and Scholarship as the recognition of my leadership in year 2007. Skilled in playing saxophone, passed grade 9 and got an excellent.

**MICROSOFT TECHNOLOGY CLUB** XI'AN, SHAANXI, CHINA  
Department Leader September 2004-June 2008

- Won annual awards from Microsoft Research Asia and be selected to attend the 2006 Microsoft Summer Camp (4 out of 300+).
- Collaborated with Grapecity Company and Intervideo Company to hold Logic Algorithm Competition and recruiting. Expanded the resources that club can use.

**SUNSHINE PROJECT** XI'AN, SHAANXI, CHINA  
Volunteer September 2004-June 2005

- Taught high school courses to young people who cannot afford off school education.

## OTHER SKILLS

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CFA Level I Candidate. (Will take in June 2009)

Familiar with C, C++, C#, Excel VBA, SPSS, Matlab and Lingo.

Fluently in using Mandarin and English (TOEFL 95).