

BAYAO ZHENG

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- OBJECTIVE** To pursue a career opportunity in the field of quantitative finance
- SUMMARY OF QUALIFICATIONS**
- § Knowledge of equities, fixed income and derivatives markets
 - § Deep understanding of financial models and hedging strategies
 - § Skilled in financial data analysis and programming
 - § Detail and accuracy oriented
 - § Strong communication and interpersonal skills
 - § Ability of taking initiative and handling multiple tasks
- SKILLS**
- Language Skills: English, Chinese(Mandarin)
Computer Skills: MATLAB, VBA for Excel, C#, VB, C, JAVA, MS- Office, LaTeX
- EDUCATION**
- Master of Financial Mathematics** Expected Dec 2009
School of Mathematics, University of Minnesota
Cumulative GPA: 3.8/4.0
Coursework includes:
§ Probability and measure theory, stochastic calculus and differential equations
§ Risk neutral pricing, Monte Carlo simulation, Wiener processes and Itô's lemma
§ Black-Scholes model, Greek letters analysis, volatility smiles and surfaces
§ Market implied or modeled distributions, parameters estimators and calibration
§ Asset allocation, evaluation and optimization
Projects include:
§ Implemented finite difference methods to price American and exotic options
§ Implemented Schwartz and Smith model to calculate expected price of crude oil
§ Applied Principal Components Analysis to Healthcare sector
§ Used maximum likelihood estimator to estimate the joint distribution with copula of STI index and its constituent, and optimized STI portfolio using Black-Litterman
§ Using options prices to calculate market-implied-distribution of S&P 500 and setup trading strategies
§ Implemented algorithmic trading application with Interactive Brokers API
- Bachelor of Engineering** July 2003
School of Mechanical Engineering, Shanghai Jiao Tong University
§ Member, Association of Mathematics Modeling
- WORK EXPERIENCE**
- Team Leader, Department of Audit and Inspection** July 2003- July 2007
Shanghai Customs House, China
§ Led small teams of 4 to 7 members
§ Initiated and managed logistics control and statistic project using MySQL
§ Initiated and managed risk analysis project over SAP and other ERP systems
- Intern, Department of Research and Development** Summer 2002
Shanghai Diesel Engine Co., Ltd., China
§ Analyzed and optimized heat transfer by implementing C language programs