

SHAN YANG

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EDUCATION

PURDUE UNIVERSITY West Lafayette IN
Master of Science in Computational Finance May 2007(Expected)
PhD of Science in Computational Finance May 2008(Expected)
Finance Courses: Asset Pricing; Portfolio Management; Risk Management; Venture Capital and Investment Banking;
Computational Mathematics of Finance; Advanced Probability, Options, and Numerical
Finance Courses: Methods Financial Algorithm; Computational Finance Seminar; Simulation Design and Analysis; Numerical Analysis. Spreadsheet Modeling
Advanced Math Courses: Probability Theory; Stochastic Analysis; Levy Process.
FUDAN UNIVERSITY Shanghai China
Bachelor of Science in Mathematics Aug 2004
Excellent Student Fellowship of Fudan University 2000-2004
Hong Kong Tung Scholarship awarded by OOCL (One out of total 120 students.) 10/2001

EXPERIENCE

PURDUE UNIVERSITY Department of Mathematics West Lafayette IN
Research Assistant: Modeling of Credit Risk, Credit Derivatives and Correlated Defaults:

- **Default modeling Under Imperfect Information:** Research on the intrinsic connection between the structural model and the intensity model.
- **Forward Loss Method:** Pricing CDS and portfolio of credit derivatives (CDO) by using the cumulated loss process.
- **Correlated Defaults modeling by copula method and Markov Chain method**
- **Imperfect Hedging and Mean-Variance Hedging** of credit Derivatives: Stochastic control problems with portfolios containing defaultable assets

Working Paper: Term structure of default intensity under imperfect information

SKILLS

Finance:

- **Asset Pricing:** Linear regression, CAPM and other methods to model the asset returns
- **Risk Management:** Value at risk model to measure the risk
- **Stochastic Volatility Model:** Model the forward volatility based on a stochastic assumption
- **Monte-Carlo simulation:** Monte-Carlo method to price exotic fixed income derivatives.
- **Binomial and trinomial tree** method on option pricing;
- **Stochastic Optimal Control Models** Methods to solve for optimization and Hedging problems

Computer: Excel and VBA, MATLAB, SAS, Visual C++, Latex
Language: Mandarin, English