

Advanced Derivatives Research Fall, 2008

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Room #707

Issues on derivative securities, such as market trading, pricing, hedging, and applications, are one of the most important and mainstream research topics in finance area for the past decades. It is also the main component in the area of financial engineering. Due to rigorous innovations in financial markets, it provides abundant research topics as well as potentials for finance researchers.

This course will explore recent advanced research on derivatives markets. I will cover the following topics: (1) option pricing with jumps and stochastic volatility; (2) GARCH option pricing models; (3) empirical derivatives research; (4) option pricing with liquidity risk; and (5) credit risk models and empirical research.

Topic: Option Pricing with Jumps and Stochastic Volatility

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Topic: GARCH Option Pricing Models

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