Yi Xing

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Education

New York University, New York, NY — Sep 2012 - May 2014

- MS in Financial Engineering **(GPA:3.66/4.00)**
- Related Courses: Fixed Income Securities and Interest Derivatives, Asset Backed Securities and Securitization, Topics in Financial Markets: Securitization, Financial Risk Management and Asset Pricing

State University of New York, Albany, NY — Aug 2010 - Dec 2010

- Exchange student **(GPA 4.0/4.0)**

East China Normal University, Shanghai, China — Sep 2008 - June 2012

- Bachelor of Science in Mathematics, Minor in Finance
- Graduated with Distinguished Honors & Excellent Undergraduate Scholarship in Honor Program
- Outstanding Student scholarship in 3 successive years (top 10%)

Work Experience

Thompson & Company, *Business Analyst Intern*, Brooklyn, NY — May 2014 – Aug 2015

- Prepared industry research and company market research, business plans, executive summaries, investor pitch decks and other related materials for various companies with positive feedbacks
- Constructed the financial models in spreadsheets for clients with DCF Model, Discretionary Earnings Model, asset based approach, comparable approach and finished with valuation reports according to the financial statements
- Communicated efficiently with clients, provided Strategic Consulting designed for them and performed the presentation

Triangle Service, *Intern*, New York, NY — Feb 2013 - Apr 2013

- Researched on New York real estate with 400+ commercial buildings in New York
- Set up the Investor Relation Network successfully on Salesforce.com
- Made 1000+ cold calls to property managers and provided building management services to them

Research Experience

Structured Finance Cash Flow Modeling (Excel, VBA) — Mar 2014 - April 2014

- Structured cash flows of Pass-Through, Principal payments (POs) and Interest payments (IOs) of a pool of securities in the condition of different simulated interest rates and CPRs scenarios
- Hedged the interest rate risk for a portfolio of bonds and IOs while CPR is a function of yield
- Modeled cash flows of POs and IOs of a sequential pool of CMO from tranche A to tranche D
- Computed the coupons of floaters and inverse floaters in mortgage Pass-Through with different leverage ratios

Mortgage-Backed Security Analysis (Excel, VBA) — Oct 2013 - Dec 2013

- Evaluated mortgage cash flows, average life, modified duration and convexity of an MBS with various CPRs
- Deduced the corresponding spot and forward yield curves of a given MBS using Bootstrapping Method
- Computed nominal spread, Z-spread, OAS and the value of the MBS with Monte Carlo simulation
- Estimated nominal and annualized RORs of a given MBS for different parallel yield curve shift scenarios

Fixed Income Analysis (Excel) — Sep 2013 - Oct 2013

- Calculated the new full price of a US treasury bond for yield changes 50bps with modified duration and convexity way
- Hedged the risk of parallel yield curve shift for a portfolio of 3 various bonds with PV01 and average modified duration
- Estimated MCP rolling yield effect, spread effect, parallel shift effect and reshape effect for a fixed income portfolio
- Analyzed return attributions by computing the effect of sector weighting and issue selection of the portfolio

Credit Risk Analysis — Oct 2013 - Dec 2013

- Calculated the Probability of Default and WCDR for a zero-coupon bond with Merton's Model
- Evaluated the RWA and Capital Requirement with and without netting for a bank under Basel II
- Computed the C-VaR and volatility of value caused by credit deterioration and defaults, and rated client's credit with Credit Metrix under mark-to-market framework

Leadership Activities

Mathematics Modeling Club, *President*, Shanghai, China — Jan 2009 - May 2011

- Invited speakers to deliver math speeches and organized modeling contests
- Hosted weekly meetings with various topics

Skills

Language: Mandarin (Native), English (Fluent)
Technical Skills: Powerful Quantitative Analysis and Mathematical Modeling
Computer Skills: Bloomberg Certification, R, VBA, SQL, Matlab, Mathematica, Lingo, SPSS, SAS, Microsoft Series
Interests: Badminton (Champion of Double Women badminton tournament in ECNU)