**Biwei Chen**

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**SKILLS**

**Finance:** Credit derivatives and Fixed-income derivatives modeling and pricing, Model Validation process, Stress Testing (Dodd-Frank Act and Basel III) model, Econometric Modeling (Monte Carlo simulation, regression analysis, time-series modeling, and cross-sectional models)

**Computer:** Microsoft office, SAS, Matlab, Python, C/C++, VBA, SQL, Adobe software products

**EDUCATION**

**MS in Mathematical Finance**, 2014 Chicago, IL

Stuart School of Business, Illinois Institute of Technology

**BS in Mathematical Economics**, 2012Beijing, China

China Economics and Management Academy, Central University of Finance and Economics

**PROFESSIOAL EXPERIENCE**

**Business Analyst, Paolini & Haley, P.C.**, Boston, MA Feb. 2015- Present

* Managing financial planning, analysis, reporting, and processes to include monthly closes, budgets, and forecasts, both expense and capital.
* Communicating with clients about our projects, find best solutions according to their particular situations. Have built Long-term relationships with 4 clients so far.
* Managing financial analyses of international trade agreements with China and other Asian countries.
* Managing client information database that increased the efficiency by 20%.

**Credit Risk Analyst**, **Kentwell Inc.**, San Jose, CA Jun., 2014 - Feb., 2015

* Communicated with clients in order to validate models properly. Wrote model validation reports and made presentations to show clients the results. Obtain “Outstanding” reward from our team for good work.
* Responsible for database maintenance and data quality improving. Designed and programmed store procedures in SQL for data cleaning and importance, which prevented human error in database by automating the process and increased the efficiency.

**Quantitative Analyst**, **Beijing Lerui Asset Management Co. Ltd.**, Beijing, ChinaMay, 2013 - Aug., 2013

* Communicated with individual investors to understand their investment preferences and risk preferences. Made presentations to show the investors about our PE funds performance in financial market and gave suggestions to the clients or potential clients. Brought 7 new clients in 3 months.
* Evaluated fixed income derivatives and credit risk derivatives using Monte Carlo simulation with special types of sampling, bootstrapping and binomial tree method.
* Predicted credit loss forecasting and interest rate movements, using time series, credit risk or interest rate models. Estimated and analyzed the model parameters using Python, VBA or Matlab.

**Risk Analyst**, **Bank of China (BOC)**, Beijing, China  Jan., 2012 - Aug., 2012

* Participated in the meeting with one of our corporate-level clients, took the responsibility to introduce our new products and investment forecasting. Obtained millions (Chinese yuan) investment from this client.
* Participated in Training Seminars as a speaker to show other staffs about new corporate-level foreign exchange products.
* Analyzed the daily foreign exchange market based on daily market data and forecasted the foreign exchange market trend using SQL and statistical tool SAS.
* Worked with Bank of China internal model validation team to complete the required model testing, validation and improvement.

**Assistant Credit Risk Analyst**, **BOC International (China) Ltd.**, Beijing, ChinaDec., 2010 – Oct., 2011

* Evaluated correlation scenarios for Credit Default Swaps, Credit Default Swaptions and Credit Default Swaption Indices in spread bump and correlation bump by VBA and SQL.
* Predicted credit loss curves on a quarterly basis, integrated the data preparation and modeling process.

**ACADEMIC PROJECTS**

**The Chicago Quantitative Alliance (CQA) 2nd Annual Investment Challenge** Nov., 2013 - Apr., 2014

* Combined Magic Formula, Piotroski and Mohanram’s Screen to form a long-short portfolio for 5 month.
* Performed several risk management techniques and portfolio management techniques (such as VaR, CAPM methodology and Beta neutral, money neutral) that made our portfolio rank in Top 3 for 2 months.

**Portfolio Risk Management** Aug. 2013 – Dec. 2013

* Developed portfolio-driven stress testing models for Expected Default Frequency data using Matlab, designed specific model selection algorithm by time.
* Developed Probability of Default, Loss Given Default and Exposure at Default models for retail portfolios including mortgage, small business and home equity.

**Credit derivatives pricing** Jan. 2014- May, 2014

Used numerical method and simulation method to evaluate the price of credit derivatives’ price using Matlab given different time period. Compared the different results to conclude the best evaluation method.