

	<p>Majid Hasan <i>Accounting, Law, Finance and Economics Department</i> Research Assistant</p> <p>Phone : +65-6653-8585 E-mail : Majid.Hasan@edhec.edu</p>
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EDUCATION

02-2014-Present	EDHEC Risk Institute - Asia, Singapore <i>PhD in Finance</i>
June 2014	CFA Level II Candidate
November 2013	Passed FRM Level I Exam
September 2013	Western University, London, ON <i>Master of Science in Financial Mathematics</i>
September 2008	University of the Punjab, Lahore, Pakistan <i>Bachelor of Science in Physics</i>

PROFESSIONAL EXPERIENCE

- **EDHEC Risk Institute - Asia Singapore**
Research Assistant January 2014 – Present
- **Western University London, Ontario**
Research Assistant, Financial Mathematics Group September 2011 – December 2013
- **University of British Columbia Vancouver, British Columbia**
Teaching Assistant, Physics January 2010 – August 2011

EXPERIENCE SUMMARY

Financial Analysis Experience:

- Constructed a Valuation Framework for the Peterborough Prison Social Impact Bond
 - Modeled the impact of prison rehabilitation programs on reconviction rate by fitting the skew normal and beta distributions to the outcomes of past rehabilitation programs.

- Estimated sensitivity of the bond's yield to maturity to interest rates and payment times.
 - Calculated the fair price of the bond by adjusting both for the risk associated with the payout and the ambiguity involved in the underlying model for the reconversion rate.
 - Studied the effect of the bond's social return on the fair price for a socially responsible investor – one who would be willing to trade off financial return for social return.
 - Studied the effect of the bond's notional and cap rate on the bond's profitability and social impact and identified the optimal bond structure that maximize the bond's total impact.
 - Provided a mechanism for the government to use the price information from each issuance of the bond to maximize the total impact over several issuances of such bonds.
- Studied Stock Market's Short Term Response to Liquidity Shocks
 - Analyzed London Stock Exchange data for 750,000 liquidity shocks – large trades that widen the bid-ask spread – using regression models and SHARCNET's supercomputing facilities.
 - Identified volume weighted average price of the security as the most important variable in determining the spreads immediately after the shock.
 - Found that the spreads don't return to pre-shock levels until 50 quote updates after the shock.
 - Found the above results to be independent of the security involved.
 - Studied Asset Correlations During 2008 Financial Crisis
 - Obtained returns on bond, stock and commodity indices using Bloomberg Terminal.
 - Found that cross-sector correlations increased during the financial crisis.
 - Found that the correlation between emerging & developed equity markets increased the most.

Presentation Experience:

- AMMCS, Waterloo, Ontario, August 26-30, 2013.
 - Presented my work on the Peterborough Prison Social Impact Bond at the international Applied Mathematics, Modeling and Computational Science Conference, 2013.

Public Relations Experience:

- Helped Organize Western Research Forum
 - Contacted local businesses to raise funding for the event.
 - Helped in drafting letters of invitation to keynote speakers.
 - Spread awareness about the event through departmental mailing lists, and social media.

Leadership Experience:

- Served as the Head TA for Physics Lab at UBC
 - Assigned duties to other TAs to setup and carry out lab experiments.
 - Gathered feedback from students and TAs about the lab experiments.

- Restructured lab schedule so that TAs conduct and grade experiments of their choice.

Programming Experience:

- Built an Excel Compatible R Package for Option Pricing
 - Wrote R functions to price European, Asian, and American options.
 - Constructed a portable R package to call these functions from within Excel spreadsheets.
- Integrated Mathematica Functionality with Excel
 - Built a Visual Basic application to use Mathematica's inbuilt functions in Excel calculations.
- Designed an Online Content Management System
 - Designed a MySQL database structure, and a search algorithm to organize content in folders.

AWARDS

- Faculty of Science Graduate Award at UBC, 2010.
- Best Physics Teaching Assistant Award at Lahore University of Management Sciences, 2009.
- Gold Medal in B.Sc.(Hons), 2009.

SKILLS AND ACTIVITIES

Languages: Fluent in Urdu, Hindi, Punjabi and English

Technical Skills: C/C++, VB.NET, SQL/MySQL, VBA, R, Mathematica/MATLAB, STATA, Bloomberg Terminal, Super/Parallel Computing (SHARCNET), PHP.

Activities: Member of CFA Society Toronto, Member of the Emerging Leaders London.

PERSONAL INFORMATION

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