RASOUL SAJJAD

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EMPIRICAL RESEARCH

My main empirical research interests lies in the fields of Financial Modelling and its Applications in Banking Sector. Moreover, Credit Risk Analysis and Performance Evaluation of Foreign Banks were the core principle in my recent job. At the same time, Financial Engineering, Portfolio Management, Financial Time Series Analysis and Financial Econometric Modeling, Value-at-Risk, Monte Carlo and Bootstrap Simulation techniques are the central themes of my empirical research in the last ten years.

CAREERS AND JOB EXPERIANCES

Central Bank of I. R. of Iran **1999-present**
2014 – present, International Department
Director

2012 –2014, Training and Human Resource Studies Department
Director

*2007- 2012, International Studies Dep*t.
Assistant Director

2002-2007 PhD Scholarship

1999-2002 Economic Researcher- Balance of Payments (BOP) Division

University of Science & Culture, Tehran **2010 - present**
Lecturer- Financial Engineering Group
Area of Teaching: Financial Engineering, Risk Management, and Portfolio Management**.**

University of Essex, UK **2004-2007**
Part time teaching fellow – Essex Business School
Teaching Subjects: OX Programming and Applications in Financial Risk Modelling,
MATLAB Programming and Applications in Portfolio Management.

Azad University of Isfahan, Iran **1996-2002**
Lecturer- Department of Business Management

ACADEMIC QUALIFICATIONS

PhD in Finance, University of Essex, UK **2002-2007**
The research thesis: "Value-at-Risk in a Markov regime-switching GARCH framework".

MSc in Systems Planning, Isfahan University of Technology, Iran **1993-1997**
The MSc thesis: “A method for optimal utilization of a thermal power plants network”.

BA in Mathematical Economics, University of Tehran, Iran **1989-1993**
"Exemplary Student in Economics" Award

TECHNICAL SKILLS

- Computer Programming Language including MATLAB, C, GAUSS and Ox - Advanced level used for Financial Modelling and Optimization.
- Intensive knowledge in applying Econometrics and Time Series packages including EViews, STATA and TSMod.

WORKSHOPS AND RESEARCH GRANTS

Industrial Management Institute, Tehran **Dec. 2010 – Feb. 2011**
Pilot on Running the Workshop on “Financial Engineering”

Central Bank of I. R. of Iran **Sep. 2007 – Jan. 2008**
Pilot on Running the Workshop on **“**MATLAB Programming and its Applications in Banking”

University of Essex, Business School, UK **Jul. 2005- Dec. 2005**
Research Associate - “Long Run World Real Interest Rate Determination”

Central Bank of I. R. of Iran **Sep. 1999 – Jun 2000**
Research Associate -“Developing the New Version of BOP for I. R. of Iran”

CONFERENCE PRESENTATIONS AND PUBLICATIONS

Financial Engineering and Portfolio Management **Spring, 2013**
Published paper: "Extreme Return- Volume dependence in equity market with a copula approach", Vol. 3, issue 13.
23rd Conference on Monetary and Exchange Rate Policies, Tehran **May. 2013**
Member of Panel Discussions on *"Currency crisis; lessons from other countries"*

Financial Engineering and Portfolio Management **Winter, 2012**
Published paper: "Investigation on Trend Time Series & Change in TEDPIX Stationary based on Bayesian and GSTUR Model", Vol. 3, issiu 12.

22nd Conference on Monetary and Exchange Rate Policies, Tehran **May. 2012**
Member of Panel Discussions on *"Dynamic Economic Modelling and Exchange Rate Policies*"

Quarterly Journal of Applied Economics Studies in Iran **Spring 2012**
Published paper: "Estimation of Value-at-Risk using the bootstrap resampling method (A case study of the Tehran stock exchange)", Volume 1m Number1.

21st Conference on Monetary and Exchange Rate Policy, Tehran **May. 2011**
Member of Panel Discussions on *"Exchange Rate Policies and Reserves Management*"

Macroeconomic Management for Senior Officials, Singapore**,** **Jim. 2010**

20th Conference on Monetary and Exchange Rate Policy, Tehran **May. 2010**
Member of Panel Discussions on *"Software Packages for Portfolio Management and Credit Risk Rating"*

The 27th SEANZA Central Banking Course, Bangkok, Thailand, **Sep. 2008**

Computational and Financial Econometrics Workshop, University of Geneva**,** **Apr. 2007**
Presented paper: "Using bootstrap for VaR forecast from MS-GARCH models" (*Under publication in European Journal of Finance*).

ESRC Seminar on Nonlinear Economics and Finance, Keele University, UK, **Feb. 2007**
Presented paper: "Value-at-Risk for long and short positions: A comparison of regime-switching GARCH and ARCH family models" (*Published in SNDE*, September, 2008).

The 3rd Oxmetrics Conference, Cass Business School, London, **Aug. 2005**
Presented paper: **"**Using a Markov Regime-Switching Framework to Estimate Dynamic VaR in Foreign Exchange Markets".

New Directions in Risk Modelling, CARISMA, London **May 2005**

Advanced Topics in Empirical Finance, Gerzensee, Switzerland **Mar. 2001**

MSC THESIS SUPERVISION

- "Determination of Optimal Bounds to Robust Quantification of the Exposure to Operational Risk", May 2013.
- "Do Investors Herd Intraday in Tehran Stock Exchange", Feb 2012.
- "Stochastic Volatility Models and Application in Tehran Stock Exchange: A Comparison of Two Importance Samplers", Jan 2012.
- "Extreme Value Theory and Value-at-Risk: Application to Tehran Stock Exchange Index", Jan 2012.
- "Bayesian Analysis of Deterministic Time Trend and Changes in Persistence in Tehran Stock Exchange: A Generalized Stochastic Unit Root Approach", Jan 2012.
- "Testing Coincident Time Varying Skewness and Kurtosis in Volatility: Persian Gulf Stock Exchanges Case Study", Jan 2012.
- "Testing Weak Efficiency of FX Market in Iran after Unification", Oct 2011.
- "Backtesting Value at-Risk (VaR) based on Tail Losses in the Tehran Stock Exchange Index", Apr. 2011.
- "Bankruptcy Prediction in Tehran Stock Exchange: A Comparison of Multivariate Discriminate Analysis Methods", Feb. 2011.

- "Generalized Regression Neural Networks in Predicting DJIA Index Movement: Integrating Behavioural and Fundamental Analysis", Feb. 2011.
- "A Methodology for Portfolio Selection under Various Risk Measures", Dec. 2010.
- "Optimal Portfolio Selection based on Value-at-Risk in a GARCH Framework: Tehran Stock Exchange Case Study", Sep. 2010.
- "FX Optimal Portfolio Allocation based on Value-at-Risk: Bank Parsian Case Study", Sep. 2010.
- "Portfolio Selection Using Compromise Programming and Genetic Algorithm under Various Risk Measures: Tehran Stock Exchange Case Study", Jun. 2010.
- "Portfolio Selection Strategies Using Price Relative Ratios & Economic Value Added", Nov. 2009.
- "Credit Risk Scoring Using Neural Networks and Logistic Methods: Bank Tejarat Case Study", Jul. 2009.