



Devraj Basu, Ph.D.
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Prior to joining EDHEC Business School and the EDHEC Risk and Asset Management Research Centre, **Devraj Basu** taught Finance at the Cass Business School in London and at the Warwick Business School in Coventry. Devraj Basu received a Ph.D. in Pure Mathematics from the Indiana University in Bloomington, Indiana, USA. His current area of research is conditional asset pricing and conditional asset allocation, a very active area. He is also interested in all aspects of continuous time finance. He has presented at major conferences and has published in major finance journals.

EDUCATION

- 1998** **Doctor of Philosophy** in Mathematics, Indiana University, Bloomington, Indiana, USA, September 1998
Thesis Title: K-Theory with R/Z coefficients and von Neumann algebras
Thesis Advisor: Prof. Jerome Kaminker
- 1992** **Master** of Statistics, First Division, Indian Statistical Institute, Calcutta and New Delhi, India, June 1992
- 1990** **Bachelor** of Statistics, First Division, Indian Statistical Institute, Calcutta and New Delhi, India, June 1990

PROFESSIONAL TEACHING EXPERIENCE

- August 2006 - June 2007 **Lecturer in Finance**, Cass Business School, City University, London, UK
- August 2000 - June 2007 **Lecturer in Finance**, Warwick Business School, University of Warwick, Coventry, UK

- October 1998 - August 2000 **Lecturer in Finance**, Warwick Business School,
University of Warwick, Coventry, UK
- September 1992 - September 1998 **Associate Instructor**, Indiana University, Bloomington,
Indiana, USA
- September 1997 - October 1997 **Visiting Scholar**, University of Victoria, Department of
Mathematics, Victoria, British Columbia, Canada
- January 1995 - June 1995 **Visiting Scholar**, Fields Institute for Research in the
Mathematical Sciences, University of Waterloo,
Ontario, Canada

Other Teaching Related Activities

Cass Business School, Finance Department

- Course Leader for Fixed Income Securities Module on the Masters in Quantitative Finance at Cass 2006-2007
- Course Leader for Introduction to Derivatives on the MBA at Cass, 2006-2007
- Course Leader for Derivative Securities on the B.Sc Banking and International Finance at Cass, 2006-2007

Warwick Business School, Accounting and Finance Department

- Course Leader for Stochastic Methods on the Masters in Financial Mathematics at Warwick in 2003-2005
- Course Leader for Derivative Securities on the Masters in Financial Mathematics at Warwick in 2003-2005
- Course Teacher on the Undergraduate Principles of Finance module. Taught corporate finance
- Course Leader for the Asset Pricing on the Masters in Economics and Finance program and Masters in Financial Mathematics at Warwick in 2000- 2002
- Course Leader for the Stochastic Methods in Economics and Finance course taught on the Masters in Economics and Finance program at Warwick in October 1999
- Course Leader for the Finance and OR course on the Masters in Operational Research. Taught basic options theory
- Liaised between the four departments involved in the Masters in Financial Mathematics at Warwick. Acquired a detailed knowledge of the program
- Organized a Practitioner Seminar featuring many leading figures in the financial industry
- Acted as Dissertation tutor and also organized company projects for students

Indiana University, Mathematics Department

- Organizer of the Mathematical Finance Seminar at Indiana University. Lectured on interest rate models. Members of the Mathematics as well as the Finance Departments attended this seminar

- Organized and taught an advanced undergraduate level option pricing mathematics course, in response to student demand. Designed and supervised class projects for the students

PROFESSIONAL NON-TEACHING EXPERIENCE

July 2007 - Present **Senior Research Engineer**, EDHEC Risk and Asset Management Research Centre, EDHEC Business School, Nice Campus, France

October 1998 - August 2000 **Academic Co-ordinator**, Masters in Financial Mathematics, Warwick Business School, University of Warwick, Coventry, UK

Other Research Related Activities

- Finance Seminar organizer (together with Alexander Stremme). This seminar has featured several distinguished finance academics such as Bernard Dumas, Wayne Ferson and Larry Epstein.
- Referee for the *JFQA*
- Referee for the ESRC

PUBLICATIONS

Published papers

K-Theory with R/Z coefficients and von Neumann algebras, *K-Theory* December 2005, 327-343

Does Conditioning Information matter in Estimating Continuous Time Interest Rate Processes *Journal of Financial and Quantitative Analysis* September 2001 335-344 (with Abhay Abhyankar)

A Classifying space for $K^1(X, R)$ and extensions to Hilbert modules *Integral Equations and Operator Theory* 31 (1998) 287-298

Accepted Papers

Portfolio Efficiency and Discount Factor Bounds with Conditioning Information: An Empirical Study *Journal of Banking and Finance* (with Abhay Abhyankar and Alexander Stremme)

Notes: Earlier Version Cited in “Handbook of the Economics of Finance”, Earlier Version Presented at EFA 2003 (Glasgow)

Revise and resubmit

The Optimal Use of Return Predictability: An Empirical Analysis

Authors: Abhay Abhyankar, Devraj Basu, Alexander Stremme

Note: Presented at ES 2002 (Brisbane), EFA 2005 (Moscow), AFA 2006 (Boston)

Market Timing Does Work: Evidence from the NYSE

Authors: Devraj Basu, Alexander Stremme

Status: **Re-Submitted**

CAY Revisited: Can Optimal Scaling Resurrect the (C) CAPM?

Authors: Devraj Basu, Alexander Stremme

Status: **Re-Submitted**

Currently under review

Anomalies and Time-Varying Betas: A new Specification Error Test for Conditional Factor Models

Authors: Devraj Basu, Alexander Stremme

Status: **Under Review**

Note: Presented at EFA 2006 (Zurich)

The Economic Value of International Return Predictability

Authors: Devraj Basu, Roel Oomen, Alexander Stremme

Status: **Under Review**

When to Pick the Losers: Do Sentiment Indicators Help Improve Dynamic Asset Allocation

Authors: Devraj Basu, Daniel Hung, Roel Oomen, Alexander Stremme

Status: **Under Review**

Note: Presented at EFA 2006 (Zurich)

How to Time the Commodity Market

Authors: Devraj Basu, Roel Oomen, Alexander Stremme

Status: **Under Review**

Idiosyncratic Risk, Pricing Error and the Hansen-Jagannathan Distance

Authors: Devraj Basu, Alexander Stremme

Status: **Under Review**

The CAPM and Time-Varying Risk Premiums

Authors: Devraj Basu, Alexander Stremme

Status: **Under Review**

International Asset Pricing with Time-Varying Risk Premiums

Authors: Devraj Basu, Daniel Hung, Alexander Stremme

Status: **Under Review**

Beating a Benchmark by Actively Managing its Components: The Case of the Dow Jones

Authors: Devraj Basu, Roel Oomen, Alexander Stremme

Status: **Under Review**

Exploiting the Informational Linkages Between Spot and Derivative Markets

Authors: Devraj Basu, Roel Oomen, Alexander Stremme

Status: **Under Review**

Working Papers

How to Make Money in a Bear market: Learning from Futures and Options Traders

Authors: Devraj Basu, Roel Oomen, Alexander Stremme

Status: To be Submitted in March 2007

The World Price of Market Risk and Country Inflation

Authors: Devraj Basu, Daniel Hung

Hedge Fund Predictability: Implications for Pricing and Hedging

Authors: Devraj Basu, Daniel Hung, Alexander Stremme

Note: Presented at Exeter University (2006) and Erasmus University (2007)

Explaining Performance Persistence in Mutual Funds: The Role of Time-Varying Risk Premiums

Authors: Devraj Basu, Joop Huij

Timing Mutual Fund Alphas

Authors: Devraj Basu, Joop Huij

Exploiting Predictability in International Anomalies

Authors: Devraj Basu, Daniel Hung, Alexander Stremme

Note: Presented at ABP International (Amsterdam)

Conference presentations

Conference on Return Predictability, Copenhagen , January 2007
Fund Management Conference, University of Exeter, December 2006
Finance Seminar, University of Amsterdam, March 2006
Finance Seminar; Cardiff University, February 2006
American Finance Association, Boston, January 2006
Finance Seminar, Exeter University, June 2005
Finance Seminar, Manchester University, December 2003
Mathematical Finance Seminar, Lancaster University, October 2003
Finance Seminar, Cass Business School, October 2003
Econometric Society Australasian Meeting, Sydney, July 2003
Mathematics Seminar, Warwick University, May 2003
Finance Seminar, Manchester University, December 2002
Finance Seminar, Lancaster University, November 2002
Econometric Society Australasian Meeting, Brisbane, July 2002
Finance Seminar, Exeter University, May 2002
Economics Seminar, York University, May 2002
European Finance Association 2002, 2003, 2006
Special Session on C*-algebras, AMS Sectional Meeting, Detroit, May 1997
Special Session on Noncommutative Geometry, AMS National Meeting, San Diego, January 1997

RESEARCH INTERESTS

- Asset pricing and asset allocation
- Continuous time finance
- Noncommutative geometry

HONORS

Research Awards

Graduate Student Stipend from Department of Mathematics, Indiana University to attend the Special Year on Operator Algebras at the Fields Institute

Teaching Awards

Rothrock Teaching Award, Department of Mathematics, Indiana University, May 1998