Zuoquan XU

Mathematical Institute, 24-29 St Giles, Oxford, OX1 3LB, UK
Tel:+44 (0)18652 70503
Email: xuz@maths.ox.ac.uk
http://www.maths.ox.ac.uk/ldapcontact/userdetails/xuz

CURRENT POSITIONS:

Nomura Research Fellow, Mathematical Institute, University of Oxford
Associate Member, Oxford-Man Institute of Quantitative Finance, University of Oxford

RESEARCH INTEREST:

Mathematical Finance/Financial Engineering, Behavioral Finance, Stochastic Analysis, Optimization, Applied PDE, Stochastic Control

EDUCATION:

Ph. D.
Feb. 2007, Department of Systems Engineering and Engineering Management, The Chinese University of Hong Kong
Specialization: Financial Engineering
Thesis: *Continuous-Time Mean-Variance Portfolio Selection with Proportional Transaction Costs*
Advisor: Professor Xunyu ZHOU

M.Phil.
Dec. 2003, School of Mathematical Sciences, Peking University
Specialization: Mathematical Finance and Insurance
Thesis: *On the Pricing of Two Exotic Options*
Advisor: Professor Weiyue DING & Dr. Min DAI

B.Sc.
July 2001, School of Mathematical Sciences, Nankai University
Major: Applied Mathematics

WORKING EXPERIENCE:

Nomura Research Fellow: Sep. 2007 - Now
Mathematical Institute, University of Oxford

Associate Member: May. 2008- Now
Oxford-Man Institute of Quantitative Finance, University of Oxford

Visiting Scholar: Sep. 2009
Host: Prof. Steven Shreve
Department of Mathematics, Carnegie Mellon University

Postdoctoral Research Fellow: Mar. 2007- Sep. 2007
Department of Systems Engineering and Engineering Management, The Chinese University of Hong Kong

Visiting Student: Aug. 2005

Host: Prof. Min Dai
Department of Mathematics, National University of Singapore

TEACHING EXPERIENCE:

Advisor: Mar. 2009-Jul. 2009
MSc student: Yan Jiang
Project: *Optimal Selling Strategy With Piecewise Linear Drift Function*
Mathematical Institute, University of Oxford

Tutor: Jan. 2009-Mar. 2009
Course: Stochastic Control and Dynamic Asset Allocation
Mathematical Institute, University of Oxford

Tutor: Oct. 2008-Dec. 2008
Course: Practical Stochastic Calculus
Mathematical Institute, University of Oxford

Tutor: Jan. 2008-Mar. 2008
Course: Stochastic Control and Dynamic Asset Allocation
Mathematical Institute, University of Oxford

Tutor: Oct. 2007-Dec. 2007
Course: Financial Derivatives
Mathematical Institute, University of Oxford

Teaching Assistant: Sep. 2005-Dec. 2005
Course: Investment Science
Department of Systems Engineering and Engineering Management, The Chinese University of Hong Kong

Teaching Assistant: Jan. 2005-May. 2005
SE&EM Seminar
Department of Systems Engineering and Engineering Management, The Chinese University of Hong Kong

Lecturer: Sep. 2004- Dec. 2004, Jan. 2006-May. 2006
Course: Calculus (Special Math Bridging Course for New SEEM Students)
Department of Systems Engineering and Engineering Management, The Chinese University of Hong Kong

Teaching Assistant: Sep. 2003-Dec. 2003
Course: Calculus
School of Mathematical Sciences, Peking University

PUBLICATION AND WORKING PAPERS:

S. Shreve and Z. Xu, "Passport Options", 2009, working paper

Z. Xu and X. Zhou, "Optimal Stopping with Prospect Preference", 2009, working paper

Z. Xu and X. Zhou, "Implied Return Rate", 2009, working paper

M. Dai and Z. Xu, "Optimal Redeeming Strategy of Stock Loans with Finite Maturity", 2008, conditionally accepted by *Mathematical Finance*

M. Dai, Z. Xu and X. Zhou, "Continuous-Time Mean–Variance Portfolio Selection with Proportional Transaction Costs", 2009, accepted by *SIAM Journal on Financial Mathematics*

A. Shiryaev, Z. Xu and X. Zhou, “Thou Shalt Buy and Hold”, *Quantitative Finance*, Vol. 8 (2008), pp. 765-776.

A. Shiryaev, Z. Xu and X. Zhou, “Response to Comment on ‘Thou Shalt Buy and Hold’ ”, *Quantitative Finance*, Vol. 8 (2008), pp. 761-762.

H. Jin, Z. Xu, and X. Zhou, “A Convex Stochastic Optimization Problem Arising from Portfolio Selection”, *Mathematical Finance*, Vol. 18 (2008), pp. 171-184.

CONFERENCES:

“Optimal Stopping with Prospect Preference”, Workshop on Behavioral Finance, Academy of Mathematics and Systems Science, Beijing, China, Jul. 2008

“When to Sell a Stock?”, Workshop on Mathematical Finance, Berlin, Germany, Oct. 2008

“When to Sell a Stock?”, Third International Conference on Mathematics in Finance, South Africa, Sep. 2008

“Stock Loans with Finite Maturity”, The Fifth World Congress of the Bachelier Finance Society, London, United Kingdom, Jul. 2008

“Continuous-Time Mean-Variance Portfolio Selection with Proportional Transaction Costs”, Quantitative Methods in Finance 2006, Sydney, Australia, Dec. 2006

International Workshop on Mathematical Finance and Insurance, Lijiang, China, May. 2006

International Workshop on Financial Engineering and Risk Management, Beijing, China, Dec. 2005

SEMINARS:

“Optimal Stopping with Prospect Preference”, Mathematical Finance Internal Seminar, University of Oxford, Oct. 2009

“Optimal Stopping with Prospect Preference”, Probability and Computational Finance Seminar, Carnegie Mellon University, Oct. 2009

“Optimal Stopping with Prospect Preference”, Oxford-Man Institute Internal Seminar, University of Oxford, Jun. 2009

“Continuous-Time Mean-Variance Portfolio Selection with Proportional Transaction Costs”, Nomura Seminar in Mathematical Finance, University of Oxford, Oct. 2007

LANGUAGES:

English, Mandarin, Cantonese