CAROL OLIVIA ALEXANDER

HOME ADDRESS

Naldretts, Mill Lane,

Hurstpierpoint, Sussex, BN6 9HL

WORK ADDRESS

School of Business, Management and Economics Jubillee Building University of Sussex

EDUCATION

1976	B.Sc. (Sussex) in Mathematics with Experimental Psychology (First Class)
1980	Ph.D. (Sussex) in Algebraic Number Theory (Supervised by Walter Ledermann)
1985	M.Sc. (LSE) in Mathematical Economics and Econometrics

APPOINTMENTS

1977 - 1978	Editor, John Wiley (one year interim PhD research)
1981 - 1982	Postdoctoral Research Fellow, University of Amsterdam
1982 - 1983	Bond Analyst, UBS Phillips and Drew, London
1983 - 1985	Teaching and Research Assistant, London School of Economics (part-time)
1985 - 1996	Lecturer in Mathematics and Economics, University of Sussex
1996 - 1998	Lecturer in Mathematics, University of Sussex (part-time)
1996 - 1998	Academic Director, Algorithmics Inc., London (part-time)
1998	Director, Head of Market Risk Modelling, Nikko Securities, London
1988 - 1999	Visiting Research Fellow, Oxford Centre for Industrial and Applied Mathematics
1999 - 2012	Chair of Financial Risk Management, ICMA Centre, Henley Business School
2012 - now	Professor of Finance, University of Sussex
	Head of Business and Management, Managerial Role, Jan 2013 – Dec 2014

GRANTS

1981	Leverhulme Foundation, post-doctoral research grant, University of Amsterdam
1986	Nuffield Foundation, award for new lecturers in science, University of Sussex
1994	ESRC, research grant for time series analysis in financial markets
2003	Foundation for Managed Derivatives Research, grant for research into hedge funds
2003	British Academy, research grant (with S. Burke, Henley Business School)
2005	Australian Prudential Regulatory Authority, research grant (with E. Sheedy, Macquarie)
2008	Europlace Institute of Finance, research grant (with S. Ohana, ESCP-EAP)
2014	Global Risk Institute (with Andreas Kaeck)

HONOURS, PATENTS and AWARDS

1996	Winner, First International Non-Linear Financial Forecasting Competition (with Ian Giblin)	
2002	Honorary Professorship, Academy of Economic Sciences, Bucharest	
2003	International Financial Risk Institute (IFRI), 9th roundtable award	
2007	Professional Risk Managers International Association (PRMIA)	
	Higher standard award (joint with Prof. Robert Merton)	
2009	U.S. Patent Number 7,571,130: Hedging exchange traded mutual funds or other	
	portfolio basket products google.com/patents/US20030233302	
2010	University award for Outstanding Contributions to Teaching and Learning	
2011	U.S. Patent Number 7,979,336: A system for pricing financial instruments	
	google.com/patents/US7979336	

EXTERNAL ACADEMIC ACTIVITIES

1999 - 2000	Visiting Research Fellow, OCIAM, Oxford University
2002 - 2012	Council and Board positions with PRMIA (details overleaf)
2003 - 2006	Expert Witness, Richards Butler, London
2007 - 2009	Editorial Board, Journal of Banking and Finance
2011 - 2013	Editorial Board, Journal of Investment Strategies
2007 - now	Editorial Board, Journal of Portfolio Management
2011 - now	External Assessor, PhD Programme in Economics and Finance, St. Gallen University
2011 - 2013	Member of CFA Advisory Council
2013 - now	Managing Editor (with Prof. Geert Bekaert) of Journal of Banking and Finance
2018	John von Neumann Chair, Technical University of Munich

Selected keynotes at professional conferences

2003	9th Annual Round Table of the International Financial Risk Institute (IFRI, London)
2003	1st International Congress on Financial and Derivatives Markets, (BM&F, Brazil)
2007	Risk and Return Russia, (Incisive Media, Moscow)
2009	Quant Congress USA (Incisive Media, New York)
2010	Changing Risk Landscape, Financial Times (London)
2012	PRMIA 10th Anniversary Global Risk Conference (New York)
2012	Royal Institution (London), 14-10 Club for Quant Finance Professionals
2016	KPMG Chair Address to Heads of Risk Management, Frankfurt
2017	Fourth Conference on Non-linear Dynamics and Financial Markets, Paris
2018	Fifth International Symposium in Computation Economics and Finance
2018	EURO2018: 29th Annual European Conference of Operational Research Societies

Selected plenary talks at academic conferences

2003	New Directions in Risk Management, Frankfurt
2004	German Finance Association 9th Annual Congress, Augsburg
2004	Campus for Finance, Germany
2005	Quantitative Methods in Finance Conference, Sydney
2008	3rd Annual Mathematics in Finance International Conference, Kruger, South Africa
2010	HVB-Institute for Mathematical Finance, Munich
2011	Campus for Finance, Germany
2012	9th Applied Financial Economics Conference, Greece
2013	Fields Institute, Toronto, Canada
2018	OR60: 60th Anniversary Conference of UK Operational Research Society

Selected workshops, seminars and conferences

2009/8/7	Quant Congress Europe (London)
2010	FOW Derivatives World (London), Post-Crisis Risk Measurement (CFA UK)
2011	Model Risk Validation (Paris)
2010/11/12	PRMIA webinars (Global)
2013	Simulation workshop, Bolzano, Italy
2013	African Institute of Mathematical Sciences, Cape Town
2015	Bachelier Mathematical Finance World Congress, New York

Selected refereeing

Journal of Banking and Finance, Financial Analysts Journal, Finance and Stochastics, Quantitative Finance, Journal of Portfolio Management, Journal Futures Markets, Journal Economic Dynamics and Control, Journal Applied Econometrics, Journal Financial Econometrics, Journal of Business Finance and Accounting, International Journal of Theoretical and Applied Finance, European Financial Management, Annals of Econometrics, Applied Mathematical Finance, Journal of Alternative Investments, Applied Financial Economics, European Journal of Finance, Finance Letters, European Journal of Operational Research, Review of Finance

PhD Examining

2008	External Examiner	Imperial College
		Student of Mark Davis
2009	External Examiner	University Paris-Dauphine
		Student of Helyette German
2015	External Examiner	University of Cambridge
		Student of Andrew Harvey

INDUSTRY LINKS

Consultancy

1990 - 1991	First generation GARCH models, Hill Samuel Bank, London	
1992	Volatility trading models, Equitable House Investments, London	
1994 - 2003	Hedge-fund software design, Pennoyer Capital Management, New York	
1996 - 1997	Spot-futures arbitrage models, EDF Man, London	
1996	Internal value-at-risk model implementation, Shell Pension Fund, Netherlands	
1997 - 1998	Orthogonal GARCH models, Robert Fleming, London	
2001 - 2007	High frequency pricing and hedging of active exchange traded funds,	
	NYSE Amex LLC, New York	
2007 - 2008	Risk Research Advisor, SAS International	
2009 - 2010	Value-at-risk model design, Credit Agricole Asset Management, London	
2012 - 2013	Tindeco Asset Management, Zurich	
2012 - 2014	Model validation, ICE Clear Europe	
2015 - 2016	Real options decisions, DTSL	

Professional Risk Manager's International Association (PRMIA)

2002 - 2009	Founding Chair of the Academic Advisory Council
2003 - 2004	Produced Professional Risk Manager's Handbook (with E. Sheedy, Macquarie)
2007	Recipient of Higher Standard Award (with Robert Merton)
2009 - 2012	Board Member
2010 - 2012	Chair of Board
2011	Founding Editor of Intelligent Risk
	prmia.org/irisk

TEACHING

1985 - 1998	Lecture Courses	University of Sussex
	Econometrics, PG	Economics Group
	Maths for Economists, 2yr UG	Economics
	Maths for Biologists, 1yr UG	Mathematics
	Group Theory, 2yr UG	Mathematics
	Linear Algebra, 1yr UGe	Mathematics

1985 - 1998 Seminars and Workshops

Microeconomics, 2yr UG Macroeconomics, 2yr UG Statistics, 2yr UG Game Theory, PG

University of Sussex

Economics
Economics
Mathematics
Mathematics

2000 - 2012 MSc Lecture Courses

2000 - 2004 Market Risk 2004 - 2011 Volatility Analysis 2005 - 2012 Quantitative Methods for Finance

University of Reading Henley Business School

Henley Business School Henley Business School

2012 - now MSc Lecture Courses

2012 Topics in Finance
2012 Hot Topics in Finance
2013 2016 Fearntial Quantitative

University of Sussex Mathematics

2013 – 2016 Essential Quantitative Finance
2015 – now Advanced Quantitative Finance

Business & Management Business & Management Business & Management

2016 – now Financial Risk Management (3rd Year UG)

Business & Management

INTERNAL ADMINISTRATION

1985 - 1999 Convenor of BSc/BA Degrees

Mathematics with Economics
Mathematics and Economics
Economics with Mathematics

University of Sussex

2005 - now Convenor of MSc Degrees

ICMA Centre

Introduced first UK MSc in Financial Risk Management Obtained PRM accreditation: joint-first MSc programme globally Introduced and marketed Financial Engineering MSc

2005 - 2006 Convenor MSc Research Projects

ICMA Centre

Wrote extensive student handbook Developed LMS site. Supervisor allocation and student support

2005 - now Elite Postgraduate Exchange

ICMA Centre-TU Munich

Student exchange with HVB-Institute for Mathematical Finance Initiated and administered programme

2000 - 2008 Director of Research

ICMA Centre

Established ICMA Centre finance research reputation worldwide:
Introduced and disseminated electronic discussion paper series
Introduced weekly research seminars
Developed research strategy and plan
Management of website research section

2010 - 2012 Director of Enterprise

ICMA Centre

Development of industry links
Research funding and student placements

2013 - 2014 Head of Business and Management

University of Sussex

Managing department with 70+ faculty in period of rapid growth

PhD SUPERVISION

Further details: carolal exander.org/phd_students.php

2004	Ali Bora Yigitbasioglu	Defaultable Convertible Bonds	
	Senior Portfolio Manager,	with Volatility Uncertainty and Call Notice Periods Cambridge Strategy, Monaco	
2004	Anca Dimitriu	Portfolio Optimization Models for Traditional and Alternative Investments	
	COO, Quant Strategies, E	alyasny Asset Management L.P., London	
2005	Dmitri Lvov	Pricing Convertible Bonds and Bermudan Swaptions by Monte Carlo Simulation	
	Executive Director, Comm	nodities Quant Research, JP Morgan, London	
2006	Leonardo Nogueira	Pricing and Hedging Options with Local and Stochastic Volatility Models	
	Head of the Deputy Gover	rnor's Office for Monetary Policy, Brazilian Central Bank	
2006	Emese Lazar Associate Professor in Fin	Multi-State Volatility Models: Theory and Applications nance, ICMA Centre, Henley Business School at Reading	
2007	Andreza Barbosa Executive Director, Mode	Pricing and Hedging Exchange Traded Funds l Risk Management, Goldman Sachs, London.	
2008	Naoufel El Bachir	Stochastic Default Intensity Modeling with Dependent Jump Processes	
	Quantitative Analyst, CII	BC World Markets, London	
2008		Multi-Asset Option Pricing trategies and Indices, Barcap. London	
2010	Joydeep Lahiri Risk, Attribution and Per	Jump Diffusions for Modelling Default Intensity formance, RWC, London	
2010	Stamatis Leontsinis Research Director, Quanti	Model-Free Moment Indices tative Derivative Strategies, CdR Capital Ltd, London.	
2010	Silvia Stanescu Quantitative Analyst, Car	Analytic Moments for GARCH Processes atab Capital Partners	
2010	Andreas Kaeck Professor of Finance, Univ	Equity Index and Index Derivative Dynamics versity of Sussex	
2010	Daniel Ledermann Senior Quantitative Analy	Random Orthogonal Matrix Simulation est, HSBC, London	
2012	Dimitris Korovilas Structurer, Citi, London	Trading Volatility	

2013	Julia Kapraun (Visiting) Assistant Professor in Fine	Control of the Contro
2014	Annanit Sumawong Quantitative Analyst, GA	Trading and Hedging Energy Futures M, Asset Management, London.
2014	Xi Chen Senior Researcher, Oxford	Real Options and Decisions in Corporate Finance Risk
2015	Johannes Rauch Senior Analyst, Oliver Wy	Higher Moment Risk Premia and Discretization Invariance man, London
2016	Yang Han Ongoing, University of Sus	Factor Model Quantile Simulation
2016	Michael Dakos Ongoing, University of Sus	Cryptocurrency Markets

INTERNATIONAL UNIVERSITY LINKS

2005 - now MSc Student Exchange

TU Munich

Supervision of finance thesis and research papers for 1 or 2 'Elite' MSc students per year Collaboration with Professor Rudi Zagst, Chair of Mathematical Finance, TU Munich

2008 - 2011

ESCP-EAP, Paris

Joint-holder of Europlace Institute of Finance grant for research into emissions and energy markets with Steve Ohana, Associate Professor ESCP-EAP

2010 - 2011 Academic Visitor

University of Cantabria, Spain

Research collaboration with Jose Maria Sarabia, Professor of Statistics, Department of Economics

2011 External Assessor

St. Gallen University, Switzerland

Finance assessor for teaching quality on Ph.D. Program in Economics and Finance – with Bo Honore (Economics) and Yacine Ait-Sahalia (Econometrics) both of Princeton University

2012

Trondheim University, Norway

Norwegian national PhD student summer school: New Directions in Quantitative Finance Research Collaboration with Prof. Sjur Westgaard, Norwegian University for Science and Technology Norwegian national research school in business economics and administration http://nfb.nhh.no

2016 KPMG Chair

Frankfurt/Munich

For research at the Chair of Mathematical Finance at TU Munich and collaboration (in Frankfurt) with Heads of Risk Management of all main German banks on visions for 'Forensic' Risk Management

2018 John von Neumann Chair of Mathematics TU Munich For teaching and research at the Chair of Mathematical Finance at TU Munich

2018 Visiting Professor

La Sapienza University, Rome

For joint research on the diamond market with Prof. Rita D'Ecclesia

PUBLICATIONS

Downloadable versions: carolalexander.org/academic_journals.php

Refereed Academic Journal Articles

- 1. Leontsinis, S., and C. Alexander (2017) 'Arithmetic variance swaps' Quantitative Finance, 17(4), 551-569.
- 2. Alexander, C., Korovilas, D. and J. Kapraun (2016) 'Diversification with volatility products' Journal of International Money and Finance, 65, 213-235
- 3. Alexander, C., J. Kapraun and Korovilas, D. (2015) 'Trading and investing in volatility products' Financial Markets, Institutions and Instruments, 24(4), 313-347
- 4. Alexander, C., Lazar, E. and S. Stanescu (2013) Forecasting VaR using analytic higher moments for GARCH processes International Review of Financial Analysis 30, 36-45
- 5. Kaeck, A. and C. Alexander (2013) Stochastic volatility jump-diffusions for European equity index dynamics. European Financial Management 19(3), 470-496
- 6. Alexander, C. and D. Korovilas (2013) Volatility exchange-traded notes: Curse or cure? Journal of Alternative Investments 15(2), 52-70
- 7. Kaeck, A. and C. Alexander (2013) Continuous-time VIX dynamics: On the role of stochastic volatility of volatility. International Review of Financial Analysis 28, 45-46
- 8. Alexander, C., Propoczuk, M. and A. Sumawong (2013) The (de)merits of minimum-variance hedging: Application to the crack spread. Energy Economics 36, 698-707
- 9. Ledermann, D. and C. Alexander (2012) Further properties of random orthogonal matrix simulation. Mathematics and Computers in Simulation 83, 56-79
- 10. Kaeck, A. and C. Alexander (2012) Volatility dynamics for the S&P 500: Further evidence from non-affine, multi-factor jump diffusions. Journal of Banking and Finance 36(11), 3110-3121
- 11. Alexander, C. and J-M. Sarabia (2012) Quantile uncertainty and value-at-risk. Risk Analysis: An International Journal 32(8), 1293-1308
- 12. Alexander, C., Cordeiro, G., Ortega, E. and J-M. Sarabia (2012) Generalized beta generated distributions. Computational Statistics and Data Analysis 56(6), 18801897
- 13. Alexander, C. and A. Venkatramanan (2012) Analytic approximations for multi-asset option pricing. Mathematical Finance 22(4), 667-689
- 14. Alexander, C. and A. Kaeck (2012) Does model fit matter for hedging? Evidence from FTSE 100 options. Journal of Futures Markets 32(7), 609638
- 15. Alexander, C., A. Rubinov, M. Kalepky and S. Leontsinis (2012) Regime-dependent smile-adjusted delta hedging. Journal of Futures Markets. 32(3), 202-229
- 16. Venkatramanan, A. and C. Alexander (2011) Closed-form approximations for spread options. Applied Mathematical Finance. 18(5), 447-472
- 17. Ledermann, W., Alexander, C. and D. Ledermann (2011) Random orthogonal matrix simulation. Linear Algebra and its Applications, 434, 1444-1467
- 18. Alexander, C. and E. Lazar (2009) Modelling regime-specific stock price volatility. Oxford Bulletin of Economics and Statistics, 71:6, 761 797
- 19. Alexander, C., A. Kaeck and L. Nogueira (2009) Model risk adjusted hedge ratios. Journal of Futures Markets, 29:11, 1021-1045
- 20. Alexander, C. and E. Sheedy (2008) Developing a stress testing framework based on market risk models. Journal of Banking and Finance, 32:10, 2220-2236
- 21. Alexander, C. and A. Kaeck (2008) Regime dependent determinants of credit default swap spreads. Journal of Banking and Finance, 32:6, 1008 1021.

- 22. Alexander, C. and A. Barbosa (2008) Hedging exchange traded funds. Journal of Banking and Finance, 32:2, 326-337
- 23. Alexander, C. and L. Nogueira (2007) Model-free price hedge ratios for homogeneous claims on tradable assets. Quantitative Finance, 7:5, 473 479
- 24. Alexander, C. and A. Barbosa (2007) Effectiveness of minimum variance hedging. Journal of Portfolio Management, 33:2, 46 59
- 25. Alexander, C. and L. Nogueira (2007) Model-free hedge ratios and scale-invariant models. Journal of Banking and Finance, 31:6, 1839-1861
- Yigitsbasioglu, A. and C. Alexander (2006) Pricing and hedging convertible bonds: delayed calls and uncertain volatility. International Journal of Theoretical and Applied Finance, 9:2, 415-437
- 27. Alexander, C. and E. Lazar (2006) Normal mixture GARCH 1,1: applications to foreign exchange markets. Journal of Applied Econometrics, 21:2 307-336
- 28. Alexander, C. and A. Dimitriu (2005) Rank alpha funds of hedge funds. Journal of Alternative Investments, 8:2, 48-61
- 29. Alexander, C. and A. Dimitriu (2005) Detecting switching strategies in equity hedge funds returns. Journal of Alternative Investments, 8:1, 7-13
- 30. Alexander, C. (2005) The present and future of risk management. Journal of Financial Econometrics, 3:1, 3-25
- 31. Alexander, C. and A. Barbosa (2005) The spider in the hedge. Review of Futures Markets, 11:1, 89-113
- 32. Alexander, C. and A. Dimitriu (2005) Indexing and statistical arbitrage: tracking error or cointegration? Journal of Portfolio Management, 31:2, 50-63
- 33. Alexander, C. and A. Dimitriu (2005) Indexing, cointegration and equity market regimes. International Journal of Finance and Economics, 10, 213-231
- 34. Alexander, C. and A. Scourse (2004) Bivariate normal mixture spread option valuation. Quantitative Finance, 4:6 1-12
- 35. Alexander, C. (2004) Normal mixture diffusion with uncertain volatility: modelling short and long term smile effects. Journal of Banking and Finance, 28:12, 2957-2980
- 36. Alexander, C. and A. Dimitriu (2004) Sources of out-performance in equity markets: common trends, mean reversion and herding. Journal of Portfolio Management, 30:4, 170-185
- 37. Alexander, C. and A. Dimitriu (2004) Equity indexing: optimising passive investments. Quantitative Finance, 4:3 C30 C33
- 38. Alexander, C. (2002) Principal component models for generating large covariance matrices. Review of Banking, Finance and Monetary Economics, Economic Notes, 31:2, 337-359
- 39. Alexander, C., I. Giblin and W. Weddington (2002) Cointegration and asset allocation: a new active hedge fund strategy. Research in International Business and Finance, 16, 65-90
- 40. Alexander, C. (2000) Measuring operational risks with Bayesian belief networks. Derivatives, Use Trading and Regulation. 6:2, 166-196
- 41. Alexander, C. (1999) Optimal hedging using cointegration. Philosophical Transactions of the Royal Society Series A, 357, 2039-2058
- 42. Alexander, C. and C. Leigh (1997) On the covariance matrices used in value-at-risk models. Journal of Derivatives, 4:3 50-62

- 43. Alexander, C. and I. Giblin (1996) Multivariate embedding methods: forecasting high-frequency data in the first international non-linear financial forecasting competition. Journal of Computational Intelligence in Finance, 5:6, 17-24
- 44. Alexander, C. and W. Ledermann (1996) Are Nash bargaining wage agreements unique? An investigation into bargaining sets for firm/union negotiations. Oxford Economic Papers, 48:2, 1-11
- 45. Alexander, C. and J. Wyeth (1996) Causality testing in models of spatial market integration. Journal of Development Studies, 32:1, 144-146
- 46. Alexander, C. (1996) Evaluating the use of RiskMetrics as a risk measurement tool for your operation. Derivatives: Use Trading and Regulation, 2:3, 277-285
- 47. Alexander, C. and H. Rendall (1995) Data generation processes of spatial series: Analysis of ephemeral channel form. Geographical Analysis, 27:1, 78-93
- 48. Alexander, C. (1995) Common volatility in the foreign exchange market. Applied Financial Economics, 5:1, 1-10.
- 49. Alexander, C. and J. Wyeth (1994) Cointegration and market integration: an application to the Indonesian rice market. Journal of Development Studies, 30:2, 303-308
- 50. Alexander, C. and M. Barrow (1994) Seasonality and cointegration of regional house prices in the UK. Urban Studies, 31:10, 1667-1689
- 51. Alexander, C. and W. Ledermann (1994) The constrained Nash bargaining solution.

 Journal of the Operational Research Society, 45:5, 954-958
- 52. Alexander, C. (1993) The changing relationship between productivity, wages and unemployment in the U.K. Oxford Bulletin of Economics and Statistics, 55:1, 87-102
- 53. Alexander, C. and A. Johnson (1992) Are foreign exchange markets really efficient? Economics Letters, 40, 449-453
- 54. Alexander, C., I. Giblin and D. Newton (1992) The symmetry of fractals. Mathematical Intelligencer, 14:2, 32-34
- 55. Alexander, C. (1992) The Kalai-Smorodinsky bargaining solution in wage negotiations.

 Journal of the Operational Research Society, 43:8, 779-786
- 56. Alexander, C. (1988) On a converse to the Tschebotarev density theorem. Journal of the Australian Mathematical Society Series A, 44, 287-293
- 57. Alexander, C. (1987) Duality in non-normal quartic fields. American Mathematical Monthly, 94, 279-284
- 58. Alexander, C. and W. Ledermann (1985) Integral bases of dihedral number fields. Journal of the Australian Mathematical Society Series A, 38, 351-371

Authored Books

See marketriskanalysis.com for further details of contents, discussion forums and videos for (2008) books.

- 59. Alexander, C. (2008) Market Risk Analysis, Volume I: Quantitative Methods in Finance. Wiley
- 60. Alexander, C. (2008) Market Risk Analysis, Volume II: Practical Financial Econometrics. Wiley
- 61. Alexander, C. (2008) Market Risk Analysis, Volume III: Pricing, Hedging and Trading Financial Instruments. Wiley
- 62. Alexander, C. (2008) Market Risk Analysis, Volume IV: Value at Risk Models. Wiley
- 63. Alexander, C. (2001) Market Models: A Guide to Financial Data Analysis. Wiley

Edited Books

- 64. Alexander, C. and D. Cumming eds. (Forthcoming) Corruption and Fraud in Financial Markets: Malpractice, Manipulation and Misconduct. Wiley
- 65. Alexander, C. and E. Sheedy eds. (2008) The Professional Risk Manager's Guide to Finance Theory and Application. McGraw-Hill
- 66. Alexander, C. and E. Sheedy eds. (2008) The Professional Risk Manager's Guide to Financial Markets. McGraw-Hill
- 67. Alexander, C. and E. Sheedy eds. (2008) The Professional Risk Manager's Guide to Financial Instruments. McGraw-Hill
- 68. Alexander, C. and E. Sheedy eds. (2004) The Professional Risk Manager's Handbook: Volume 1, Finance Theory, Instruments and Markets. PRMIA Publications, Illinois
- 69. Alexander, C. and E. Sheedy eds. (2004) The Professional Risk Manager's Handbook: Volume 2, Financial Mathematics. PRMIA Publications, Illinois
- 70. Alexander, C. and E. Sheedy eds. (2004) The Professional Risk Manager's Handbook: Volume 3, Financial Risk Management. PRMIA Publications, Illinois
- 71. Alexander, C. ed. (2003) Operational Risk: Regulation, Analysis and Management. FT-Prentice Hall
- 72. Alexander, C. ed. (2001) Mastering Risk Volume II. FT-Prentice Hall
- 73. Alexander, C. ed. (2000) Visions of Risk. FT-Prentice Hall
- 74. Alexander, C. ed. (1998) Risk Management and Analysis Volume I: Measuring and Modelling Financial Risk. Wiley
- 75. Alexander, C. ed. (1998) Risk Management and Analysis Volume II: New Markets and Products. Wiley
- 76. Alexander, C. ed. (1996) The Handbook of Risk Management and Analysis. Wiley
- 77. Alexander, C. (1980-1990) The Handbook of Applicable Mathematics. Assistant editor volumes I V and co-editor volume VI. Wiley

Book Chapters, Reports and Conference Papers

- 78. Alexander, C. (2008) Hedging the risk of energy futures portfolios. Risk-Management in Commodity Markets: From Shipping to Agriculturals and Energy, H. Geman ed., Wiley
- 79. Alexander, C. (2008) Moving average models for volatility and correlation. Handbook of Finance, Volume 1, F. J. Fabozzi ed., Wiley
- 80. Alexander, C. (2008) Statistical models of operational loss. Handbook of Finance, Volume 1, F. J. Fabozzi ed., Wiley
- 81. Alexander, C. and A. Venkatramanan (2008) Commodity options. Handbook of Commodity Investing, F.J. Fabozzi, R. Fuss and D.G. Kaiser eds., Wiley
- 82. Alexander, C. and A. Dimitriu (2006) Rank alpha funds of hedge funds. Fund of Hedge Funds: Performance, Assessment, Diversification and Statistical Properties, G. N. Gregoriou ed., Elsevier
- 83. Alexander, C. (2005) Assessment of operational risk capital. Risk Management: Challenge and Opportunity, M. Frenkel, U. Hommel and M. Rudolf eds., Springer
- 84. Alexander, C. and A. Dimitriu (2005) Hedge Fund Index Tracking. Hedge Funds: Insights in Performance Measurement, Risk Analysis, and Portfolio Allocation, G.N. Gregoriou, G. Hubner, N. Papageorgiou, and F. Rouah eds., Wiley

- 85. Alexander C. and A. Dimitriu (2004) The Art of Investing. Hedge Funds: Fund Selection and Optimal Allocations. Intelligent Hedge Fund Investing, Barry Schachter ed., Risk Publications
- 86. Alexander, C. and L. Nogueira (2004) Stochastic local volatility. Proceedings of the second international IASTED conference on financial engineering and applications, MIT, 136-141
- 87. Alexander, C. and E. Lazar (2004) Time aggregation of normal mixture GARCH. Proceedings of the second international IASTED conference on financial engineering and applications, MIT, 210-215
- 88. Alexander, C. (2004) Principles of the skew. Exotic Options, Alexander Lipton ed., Risk Publications
- 89. Alexander, C. (2004) Correlation in crude oil and natural gas markets. Managing Energy Price Risk 3rd Edition V. Kaminsky ed., Risk Publications
- 90. Alexander, C. (2004) Advanced value-at-risk Models. Professional Risk Managers Handbook, Volume III, C. Alexander and E. Sheedy eds., PRMIA Publications
- 91. Alexander, C. (2004) Operational value-at-risk. Professional Risk Managers Handbook, Volume III, C. Alexander and E. Sheedy eds., PRMIA Publications
- 92. Alexander, C. and Pezier, J. (2003) Assessment and aggregation of banking risks. Commissioned report. International Financial Risk Institute (IFCI)
- 93. Alexander, C. (2003) Statistical models for operational loss. Operational Risk: Regulation, Analysis and Management, C. Alexander ed., Pearson
- 94. Alexander, C. (2003) Managing operational risks with Bayesian networks. Operational Risk: Regulation, Analysis and Management, C. Alexander ed., Pearson
- 95. Alexander, C. (2001) Orthogonal GARCH. Mastering Risk Volume II, C. Alexander ed., Pearson
- 96. Alexander, C. (2001) Bayesian methods for measuring operational risks. Mastering Risk Volume II, C. Alexander ed., Pearson
- 97. Alexander, C. (1999) Correlation and cointegration in energy markets. Managing Energy Price Risk, 2nd Edition. V. Kaminsky ed., Risk Publications
- 98. Alexander, C. (1998) Volatility and correlation: measurement, models and applications. Risk Management and Analysis: Measuring and Modelling Financial Risk. C. Alexander, ed., Wiley
- 99. Alexander, C. (1997) Estimating and forecasting volatility and correlation: methods and applications. Risk Management and Financial Derivatives: A Guide to the Mathematics, S. Das ed., LBC
- Alexander, C. (1996) Volatility and correlation forecasting. Handbook of Risk Management and Analysis. C. Alexander ed., Wiley
- Alexander, C. (1990) Non-cooperative finite games. Handbook of Applicable Mathematics. Volume VI. W. Ledermann and C. Alexander eds., Wiley
- Alexander, C. (1980) Groups. Handbook of Applicable Mathematics, Volume I. W. Ledermann ed., Wiley

Practitioner Journal Articles

- 103. Alexander, C. (2003) Operational risk aggregation. Operational Risk (April)
- 104. Alexander, C. (2003) Common correlation and calibrating the lognormal forward rate model. Wilmott (March), 68-78
- 105. Alexander, C. (2002) Rules and models. Risk, 15:1, S2-S5
- Alexander, C. (2001) Taking control of operational risk. Futures and Options World, 366, 60-65
- 107. Alexander, C. and J. Pezier (2001) Binomial gammas. Operational Risk (April)
- 108. Alexander, C. (2001) Taming the skew. Futures and Options World, 367, 60-65
- 109. Alexander, C. (2001) Principles of the skew. Risk 14:1, S29-S32
- 110. Alexander, C. and R. Thillainathan (1996) The Asian connections. Emerging Markets Investor, 2:6 42-47
- 111. Alexander, C. and A. Johnson (1994) Dynamic links. Risk, 7:2, 56-61
- 112. Alexander, C. (1994) History debunked, Risk, 7:12, 59-63
- 113. Alexander, C. and I. Giblin (1994) Chaos in the system. Risk, 7:6, 71-76
- 114. Alexander, C. and N. Riyait (1992) The world according to GARCH. Risk, 5:8, 120-125
- 115. Alexander, C. (1984) Evaluation of index-linked gilts using inflation forecasts. The Investment Analyst, 72, 7-12

WEB STATISTICS

SSRN Download Rank

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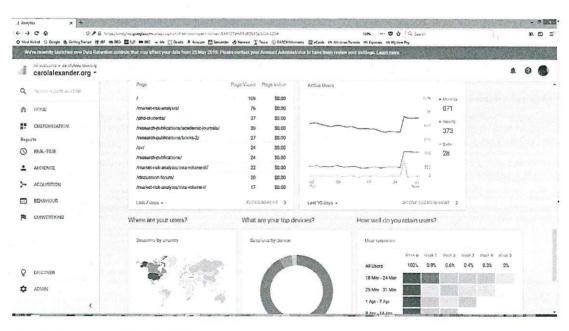
Google Scholar Citations

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Carol Alexander, May 2, 2018