

ROBERT JAMES ELLIOTT

CURRICULUM VITAE

CITIZENSHIP: Canadian and British

Permanent resident of Australia with Distinguished Talent Visa.

EDUCATION:

School: Swanwick Hall Grammar School, Derbyshire

University: New College, Oxford
BA Oxford. Class 1 in the Final Honour School of Mathematics,
July 1961

King's College, Cambridge
Ph.D. Cambridge, January 1965
(Supervisor, John Williamson)

M.A. Oxford, 1965

Sc. D. Cambridge, 1983

Oxford University Senior Mathematical Prize, July 1964

ACADEMIC CAREER:

2009-2014 Australian Professorial Fellow, School of Mathematics,
University of Adelaide, Australia

2009 - Professor Emeritus and Faculty Professor, University of

	Calgary
2001 - 2009	Royal Bank Professor of Finance, University of Calgary, Canada
July 2001 -	Professor Emeritus, University of Alberta, Canada
Jan 1999-June 2001	A.F. Collins Professor of Finance, University of Alberta
July 1999-June 2000	Visiting Professor, University of Adelaide, Australia
Jan-June 1998	Visiting Professor, University of Adelaide, Australia
Jan-June 1997	Visiting Professor, University of Adelaide, Australia
1994-1995	McAlla Research Professor, University of Alberta
July 1994-2001	Professor, Department of Mathematical Sciences, University of Alberta, Edmonton, Alberta
Jan 1986-1994	Professor, Department of Statistics & Applied Probability, University of Alberta, Edmonton, Alberta
July 1985-Dec 1985	Visiting Professor, University of Alberta
1984-1985	Distinguished Visiting Professor, University of Alberta
May-June 1978	Visiting Professor of Applied Mathematics, Brown University
Jan-May 1978	Visiting Professor, University of Kentucky
Sept-Dec 1977	Visiting Professor, University of Alberta
1976-1986	G.F. Grant Professor of Mathematics and Head of Department, University of Hull
1973-1986	Professor of Pure Mathematics, University of Hull
1972-1973	Associate Professor, Northwestern University, Evanston, IL.
1969-1973	Senior Research Fellow, Mathematical Institute, University of Warwick
1966-1969	Lecturer in Mathematics, Oxford University, and Fellow of Oriel College, Oxford
1965-1966	Instructor, Yale University, New Haven, Connecticut and Fellow of Berkeley College, Yale
1964-1965	Lecturer, University of Newcastle-upon-Tyne, U.K.

ADJUNCT POSITIONS:

2014-2019	Adjunct Professor, University of Adelaide, Australia
2013- 2015	Adjunct Professor, Dept. of Finance, University of South Australia
2009- 2012	Adjunct Professor, Dept. of Mathematics, University of South Australia

2006 - 2011	Adjunct Professor, Department of Electrical & Computer Engineering McMaster University, Canada
2003 - 2008	Adjunct Professor, Australian National University, Canberra
2002 - 2011	Adjunct Professor, Dept. of Electrical & Computer Engineering, University of Calgary, Canada
2002 - 2009	Adjunct Professor, University of Adelaide, Australia
2002 -	Adjunct Professor, Dept. of Mathematics & Statistics, University of Calgary, Canada
1993 – 1998	Adjunct Professor, Dept. of Finance & Management Science, University of Alberta, Edmonton, Canada

SHORT TERM VISITING POSITIONS:

February 2012	Visiting Professor, Department of Statistics and Actuarial Science, University of Hong Kong
February 2011	Risk Management Institute, University of Singapore
April 2008	Universita del Svizzera Italiano, Lugano. Switzerland
February 2008	Visiting Professor, University of Adelaide, Australia
April 2007	Universita del Svizzera Italiano, Lugano. Switzerland
February 2007	Visiting Professor, University of Adelaide, Australia
April 2006	Universita del Svizzera Italiano, Lugano. Switzerland
February 2006	Visiting Professor, University of Adelaide, Australia
April 2005	Universita del Svizzera Italiano, Lugano. Switzerland
February 2005	Visiting Professor, University of Adelaide, Australia
April 2004	Universita del Svizzera Italiano, Lugano. Switzerland
February 2004	Visiting Professor, University of Adelaide, Australia
May 2003	Universita del Svizzera Italiano, Lugano. Switzerland
February 2003	Visiting Professor, University of Adelaide, Australia
June 2002	Universita del Svizzera Italiano, Lugano. Switzerland
May 2002	Professeur Invité de Classe Exceptionnelle, Université de Paris <u>IX</u> , Dauphine
February 2002	Visiting Professor, University of Adelaide, Australia
February 2001	Visiting Professor, University of Adelaide, Australia
July 1999- June 2000	Visiting Professor, University of Adelaide, Australia
May 1999	Visitor, Laboratoire des Signaux et Systèmes, École Supérieure d'Électricité
April 1998	Professeur Invité, Université d'Evry, France
January 1998	Visiting Professor, University of Hong Kong
January-June 1998	Visiting Professor, University of Adelaide, Australia

April 1997	Visiting Fellow, Department of Systems Engineering, Australian National University, Canberra, Australia
February 1997	Department of Electrical & Electronic Engineering, University of Melbourne, Australia
January-June 1997	Visiting Professor, University of Adelaide, Australia
April, May 1996	Visiting Professor, Université de Paris Sud, Orsay, and Laboratoire des Signaux et Systèmes, École Supérieure d'Électricité
May, June 1995	Visitor, Isaac Newton Institute, University of Cambridge
May 1995	Visiting Scientist, I.N.R.I.A. Le Chesnay, France
March 1995	Department of Electrical and Electronic Engineering, University of Melbourne, Australia
February 1995	Visiting Fellow, Department of Systems Engineering, Australian National University, Canberra
January 1995	Department of Electrical Engineering, University of California, San Diego, CA.
November 1994	University of Science and Technology, Hong Kong
October 1994	Consultant, Federal Reserve Bank, Atlanta, GA.
May 1994	Visiting Scientist, I.N.R.I.A., Le Chesnay, France
March 1994	Visitor, Institute for Systems Research, University of Maryland
July 1993	Visiting Fellow, Department of Systems Engineering, Australian National University
May 1993	Visiting Scientist, I.N.R.I.A., Le Chesnay, France
April-May 1992	Visiting Professor, Université de Paris VI
April-May 1992	Visiting Scientist, I.N.R.I.A., Le Chesnay, France
January-May 1992	Visiting Fellow, Department of Systems Engineering, Australian National University
May 1991	Visiting Fellow, Department of Systems Engineering, Australian National University
May-July 1988	Guest Professor, University of Konstanz, Germany
Spring 1986	Distinguished Lecturer, Systems Research Center, University of Maryland
May 1984	Guest Lecturer, Laboratory for Statistics and Probability Ottawa, Canada
April 1984	Visitor, Institut des Hautes Études Scientifiques, Paris
June-Sept 1983	Visiting Fellow, Department of Systems Engineering, Australian National University
June 1983	Visiting Professor, University of Western Australia

April 1983	Visiting Professor, Technical University of Denmark
August 1982	Research Associate, University of Alberta
July-August 1981	Research Associate, University of Alberta
May-June 1981	Visiting Professor, University of Bonn
August 1980	Visiting Professor, University of Bonn
May-June 1980	Research Associate, University of Alberta
August 1979	Visiting Professor, University of Bonn
May-June 1979	Research Associate, University of Alberta
August 1977	Visitor, Department of Electrical Engineering and Computer Science, University of California, Berkeley.
March-April 1976	Visitor, Instituté des Hautes Études Scientifiques, Paris
August-Sept 1972	Research Associate, University of Toronto
July-August 1968	Research Associate, University of Alberta, Edmonton

PRESENTATIONS:

2000 – Current:

July 2015 International Work-Conference on Time Series (ITISE 2015), Granada (SPAIN). GARCH Models and their Continuous Time Limits

July 2015 Society for Industrial and Applied Mathematics. CT 15 Stochastic Systems and Applications, Paris, France. Hidden Markov Change Point Estimation

July 2015 Stochastic Processes and Applications, Oxford UK. Binomial Tree Malliavin Calculus and Convex Risk Measures

April 2015. Australia-New Zealand Applied Probability Workshop. Vine Inn, Barossa, South Australia.

December 2014 Plenary Speaker, Quantitative Methods in Finance, Sydney, AUS

December 2014 Workshop: Beyond the Classical Paradigm, University of Technology, Sydney

December 2014 Meeting on Risk, Modelling, Optimization, Inference. University of New South Wales, Sydney

July 2014 Binomial Tree Malliavin Calculus and Risk Measures. International Symposium on Differential Equations and Stochastic Analysis in Mathematical Finance, Sanya, China

June 2014 Malliavin Calculus in a binomial tree. Annual Meeting of the Canadian Industrial and Applied Mathematics Society, Saskatoon, Canada

June 2014 Binomial Tree Malliavin Calculus and Risk Measures. 3rd Stochastic Modeling Techniques and Data Analysis International Conference, Lisbon, Portugal

June 2014 Backward equations in a binomial tree. Bachelier Finance Society World Congress, Brussels, Belgium

December 2013 Plenary Speaker, Quantitative Methods in Finance, Sydney, AUS

November 2013 Colloquium, University of Hong Kong.

November 2013 Colloquium, University of Technology, Sydney

July 2013 Invited speaker, 15th Applied Stochastic Models and Data Analysis International Conference (ASMDA 2013), Barcelona, Spain

June 2012 Plenary Speaker, Quantitative Methods in Finance, Cairns, AUS

June 2012 Plenary speaker, 7th Conference on Actuarial Science and Finance, Samos, Greece

May 2012 Colloquium, University of Zurich

March 2012 Plenary Speaker, Financial Risk Day, Macquarie University, Sydney,

December 2011 Plenary Speaker, Quantitative Methods in Finance, Sydney, AUS

May 2011 Colloquium, Oxford-Man Institute for Quantitative Finance, Oxford University

May 2011 Colloquium, Universite d'Evry, France

June 2011 15th Applied Stochastic Models and Data Analysis International Conference (ASMDA 2013), Rome, Italy

December 2010 Plenary Speaker, Quantitative Methods in Finance, Sydney, AUS

December 2009 Plenary Speaker, Quantitative Methods in Finance, Sydney,

AUS.

November 2008 Seminar, Concordia University, Montreal

October 2008 Seminar, University of Missouri

September 2008 Seminar, Imperial College London, England

July 2008 Presentation, Bachelier Finance Society World Congress, London, England.

July 2008 Invited talk, World Congress on Non Linear Analysis, Orlando FL

May 2008 Colloquium, Oxford-Man Institute for Quantitative Finance, Oxford University

December 2007 Plenary Speaker, Quantitative Methods in Finance, Sydney, AUS.

November 2007 Invited seminar, Stellenbosch University, South Africa.

November 2007 Invited speaker at the African Institute for Mathematical Sciences, South Africa.

September 2007 Invited speaker at Fudan University, Shanghai, Xi'an, Jiaotong University, Xian, Guang Xi Normal University, Guilin, and the Chinese Academy of Sciences, Beijing.

August 2007 Invited speaker at the International Society for Business and Industrial Statistics (ISBIS), Azores, Portugal.

August 2007 Invited main speaker at the Daiwa Workshop and Conference, Kyoto and Tokyo, Japan.

July 2007 Invited seminar at the University of Munich.

July 2007 Invited talk at the meeting for Wolfgang Runggaldier, Bresannone, Italy.

July 2007 Invited talk at the American Control Conference, New York NY

June 2007 Invited speaker at the Annual Meeting of the Statistical Society of Canada, St John's NL.

February 2007 Speaker on "Risk" to National ICT Australia

December 2006 Plenary Speaker, Quantitative Methods in Finance, Sydney, AUS.

November 2006 39th IEEE Conference on Signals, Systems and Computers, Asilomar, CA.

September 2006 Invited speaker, Conference for Dilip Madan, University of Maryland.

August 2006 Speaker, Bachelier World Congress, Tokyo, Japan.

June 2006 Speaker, Canadian Mathematical Society Annual Meeting, Calgary, AB.

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

May 2006 Invited speaker, Fifth International Workshop on Scientific Computing and Applications , Banff, AB.

May 2006 Invited plenary speaker, IWAP2006 (International Workshop in Applied Probability), University of Connecticut, Storrs, Conn.

March 2006 Ostrom Lecture, Washington State University, Pullman, WA.

December 2005 Keynote Speaker, Quantitative Methods in Finance, Sydney, AUS.

November 2005 39th IEEE Conference on Signals, Systems and Computers, Asilomar, CA.

September 2005 NFA 2005, Simon Fraser University, Vancouver, BC

July 2005 Stochastic Analysis in Finance and Engineering [Host], U of Calgary

July 2005 SMOCS '05 (Stochastic Modeling of Complex Systems), Daydream Island, Australia

June 2005 CRM (Stochastic Modeling in Financial Mathematics), Montreal

May 2005 EURANDOM, Conference in Risk, Eindhoven, The Netherlands

March 2005 DASP (Defense Applications of Signal Processing), Utah, USA

January 2005 Colloquium, University of Houston

December 2004 Keynote Speaker, Quantitative Methods in Finance, 2004, Sydney, AUS.

November 2004 38th IEEE Conference on Signals, Systems and Computers, Asilomar, CA.

July 2004 Bachelier World Congress, Chicago, Il.

April 2004 Colloquium, University of Zurich

March 2004 Colloquium, University of Houston

December 2003 Keynote Speaker, Quantitative Methods in Finance 2003, Sydney, Australia

November 2003 37th IEEE Conference on Signals Systems and Computers, Asilomar, CA.

September 2003 Northern Finance Meeting, Quebec City

August 2003 Co-organizer and speaker, Workshop on Mathematical Finance, Memorial University, Newfoundland

August 2003 Public Lecture, Memorial University, Newfoundland

June 2003 AMS/SIAM Meeting on Financial Mathematics, Snowbird, Utah

February 2003 Seminar, Defence Science & Technology Organization,

Salisbury, AUS

December 2002 Keynote Speaker: Quantitative Methods in Finance 2002, Sydney, AUS

November 2002 36th IEEE Conference on Signals Systems and Computers, Asilomar, CA

July 2002 Co-organizer, Conference on Filtering; University of Alberta, Canada

May 2002 Seminar, Université de Paris IX, Dauphine

April 2002 Università del Svizzera Italiano, Lugano, Switzerland

December 2001 Keynote speaker: Quantitative Methods in Finance 2001, Sydney, AUS

November 2001 35th IEEE Conference on Signals Systems and Computers, Asilomar, CA.

July 2001 SPIE Annual Meeting, San Diego, CA.

April 2001 Università del Svizzera Italiano, Lugano, Switzerland

February 2001 Australia New Zealand Applied Mathematics Meetings, Barossa Resort, South Australia

December 2000 Quantitative Methods in Finance 2000, Sydney Australia

December 2000 IEEE Conference on Decision and Control, Sydney, Australia

November 2000 Seminar, Department of Finance, University of Calgary

October 2000 Conference on Finance and Stochastics, Konstanz, Germany

June 2000 Invited Presentation, Workshop on Modern Risk Management, Ascona, Switzerland

June 2000 Bachelier World Congress, Paris, France

June 2000 Conference on Real Options, Cambridge, England

May 2000 Seminar, IEEE South Australia Branch, CSSIP, (Centre for Sensors, Signals and Information Processing), Mawson Lakes, S.A.

April 2000 Seminar, University of South Australia, Adelaide, Australia

March 2000 Seminar, Australian National University, Canberra, Australia

March 2000 Seminar, University of Science and Technology, Sydney, Australia

1990 – 1999

November 1999 Seminar, Department of Applied Mathematics, University of Adelaide

July 1999 Quantitative Methods in Finance 1999, Sydney, Australia

July 1999 Seminar, Department of Finance, Università del Svizzera Italiano, Lugano, Switzerland

April 1999 Seminar, Department of Finance, University of Rotterdam

February 1999 Distinguished Lecture, Department of Electrical and Computer Engineering, University of California, San Diego, CA.

January 1999 Lecture series, Filtering and Finance, Fields Institute, University of Toronto

December 1998 37th I.E.E.E. Control and Decision Conference, Tampa, Florida

October 1998 Conference in honor of R. Rishel, University of Kentucky

June 1998 School of Banking and Finance, University of New South Wales, Australia

June 1998 Workshop on Signal Processing, Isaac Newton Institute, University of Cambridge

January 1998 Department of Statistics, University of Hong Kong

December 1997 36th I.E.E.E. Control and Decision Conference, San Diego, CA.

December 1997 Workshop on Filtering, University of Southern California

November 1997 Graduate School of Business, University of Chicago

October 1997 Financial Management Association Annual Mtg., Honolulu, HI.

August 1997 Keynote speaker, Quantitative Mathematical Finance '97, Cairns, AUS

June 1997 Defence Science & Technology Organization, Salisbury, South Australia

April 1997 Colloquium, School of Mathematics, Australian National University, Canberra

January 1997 Special Seminar on Stochastic processes, American Mathematical Society Annual Meeting, San Diego, CA.

November 1996 Department of Finance, Arizona State University

September 1996 Department of Mathematics, University of Victoria

July 1996 S.I.A.M. Annual Conference, Session on Mathematical Finance

June 1996 Invited Lecturer, Conference on Mathematical Finance, Aarhus, Denmark

June 1996 Mathematical Theory of Networks and Systems, St. Louis, MO.

April 1996 Colloquium, University of Hull

February 1996 Distinguished Lecturer, Department of Electrical and Computer Engineering, University of California, San Diego, CA.

December 1995 34th I.E.E.E. Control and Decision Conference, New Orleans, LA.

October 1995 29th I.E.E.E. Asilomar Conference on Signals, Systems and Computers

June 1995 Bank of England Conference, Isaac Newton Institute, Cambridge, England

June 1995 I.F.A.C. Symposium on Nonlinear Control System Design, Lake Tahoe, CA

May 1995 Journées de Statistiques, H.E.C. Jouy en Josas, France

May 1995 Séminaire, Laboratoire de Signaux et Systèmes, Supelec, Saclay, France
 May 1995 Séminaire Bachelier, Paris, France
 April 1995 Seminar, Department of Statistics, University of Auckland, New Zealand
 March 1995 Seminar, Department of Systems Engineering, Australian National University
 March 1995 Seminar, Department of Electrical and Electronic Engineering, University of Melbourne, Australia
 March 1995 Seminar, Department of Mathematics, University of Adelaide, Australia
 March 1995 Seminar, Cooperative Research Centre for Signals and Information Processing, The Levels, South Australia
 February 1995 Seminar, Systems Research Center, Arizona State University, Tempe, AZ
 February 1995 Workshop on the Mathematics of Finance, Australian National University, Canberra, Australia
 January 1995 Special Session on Stochastic Analysis, American Mathematical Society Meeting, San Francisco
 December 1994 33rd. I.E.E.E. Control and Decision Conference, Lake Buena Vista, Fl.
 November 1994 Colloquium, University of Science and Technology, Hong Kong
 November 1994 Seminar, Department of Systems Engineering, Chinese University of Hong Kong
 October 1994 Colloquium, Department of Mathematics, Georgia Institute of Technology
 October 1994 Seminar, Department of Finance, University of Georgia
 September 1994 Seminar, Department of Electrical Engineering, University of Waterloo
 June 1994 Co-organizer and Speaker, Workshop on Filtering, Chapel Hill, NC.
 May 1994 Colloquium, University of Hull
 May 1994 Séminaire, Université de Paris VI
 May 1994 Co-organizer and Speaker, Conference on Mathematical Finance, Italy
 March 1994 Seminar, Systems Research Institute, University of Maryland
 March 1994 Seminar, Department of Finance, University of Maryland
 December 1993 32nd I.E.E.E. Control & Decision Conference, San Antonio, TX.
 November 1993 27th I.E.E.E. Asilomar Conference on Systems, Signals & Computers

July 1993 IFAC World Congress, Sydney
 May 1993 6th I.E.E.E. Conference on Applied Stochastic Models & Data Analysis, Crete
 May 1993 Séminaire, I.N.R.I.A. Le Chesnay, France
 May 1993 Séminaire Bachelier, Paris
 December 1992 31st I.E.E.E. Control & Decision Conference, Tucson, AZ.
 November 1992 Workshop on Stochastic Control, Centre de Recherches Mathématiques, Montreal
 October 1992 26th I.E.E.E. Asilomar Conference on Systems, Signals & Computers
 September 1992 SIAM Meeting on Control, Minneapolis, MN.
 August 1992 Meeting on Mathematical Finance, Oberwolfach, Germany
 May 1992 15th International Summer School on Stochastic Processes, Erice, Sicily
 April 1992 Séminaire Bachelier, Université de Paris, VI
 April 1992 Séminaire, Hautes Études Commerciales, Jouy en Josas
 April 1992 Séminaire, E.S.S.E.C. Cergy Pontoise
 November 1991 25th IEEE Asilomar Conference on Systems, Signals and Computers
 September 1991 13th I.F.I.P. Conference on System Modelling and Optimization, Zurich
 September 1991 Northern Finance Association, Montreal
 September 1991 Workshop on Adaptive Theory and Stochastic Control, University of Kansas, Lawrence, KS.
 December 1990 29th IEEE Control and Decision Conference, Honolulu, HI.
 November 1990 24th IEEE Asilomar Conference on Systems, Signals and Computers
 July 1990 Symposium on Stochastic Analysis, Durham, England
 June 1990 International Conference in Finance. École des Hautes Études Commerciales, Paris

1974-1989

November 1989 23rd IEEE Asilomar Conference on Systems, Signals and Computers
 April 1989 Workshop on Stochastic Analysis, Imperial College, London. (Co-editor of proceedings.)
 November 1988 22nd IEEE Asilomar Conference on Systems, Signals and Computers
 July 1988 Bernoulli Society Annual Meeting, Rome, Italy

June 1988 8th Conference on Analysis and Optimization of Systems, Antibes, France

June 1988 4th Conference on Stochastic Systems, Bad Honnef, F.R. Germany

April 1988 Systems Research Center, University of Maryland

November 1987 21st IEEE Asilomar Conference on Systems, Signals and Computers

July 1987 Workshop on Diffusion Approximation, International Institute for Applied Systems Analysis, Laxenburg, Austria

June 1986 Conference on Stochastic Differential Equations and Applications, Institute of Mathematics and Applications, University of Minnesota

June 1985 3rd Conference on Stochastic Systems, Bad Honnef, F.R. Germany

May 1984 Workshop on Stochastic Processes, Ottawa, Canada

March 1984 I.F.I.P. Conference on Stochastic Differential Systems, Marseille, France

June 1982 Meeting on Stochastic Systems, (Co-organizer), Bad Honnef, F.R. Germany

February 1982 I.F.I.P. Working Conference on Filtering and Optimization, Cocoyoc, Mexico

June 1981 Conference on Stochastic Processes, Tübingen, F.R. Germany

March 1981 Meeting on Stochastic Analysis, Oberwolfach, F.R. Germany

July 1980 Symposium on Stochastic Integrals, Durham, England

June 1980 École Normale Supérieure des Télécommunications, Paris, France

April 1980 British Mathematical Colloquium, Sheffield, England

January 1979 Workshop on Stochastic Control, Bonn, W.Germany

September 1978 Conference on the Optimization of Stochastic Systems, Oxford, England

June 1978 3rd Kingston Conference on Differential Games and Control Theory, University of Rhode Island, USA

March 1977 Workshop on Differential Games, Enschede, The Netherlands

June 1976 2nd Kingston Conference on Differential Games and Control Theory, University of Rhode Island, USA

August 1975 Conference on Probability and Theoretical Physics, Institute for Advanced Studies, Dublin, Ireland

June 1975 Symposium on Stochastic Systems, University of Kentucky, USA

June 1975 Workshop in Singular Perturbations and Control Theory, University of Calgary, Canada

September 1974 Advanced Study Institute on Theory and Application of
Differential Games, University of Warwick, England
June 1974 International Symposium on Control Theory I.N.R.I.A.
Rocquencourt, France

RESEARCH FUNDS U.K.

- One million Belgian Francs from N.A.T.O. to Professor Parks and myself to run an Advanced Study Institute at the University of Warwick in 1974.
- Funds from the Science Research Council from 1974-1976. These supported a Research Assistant A. Kussmaul, for two years. Dr. Kussmaul wrote a book Stochastic Integration and Generalized Martingales which was published by Pitman in their Advanced Publishing programme.
- The Science Research Council awarded me a second research grant to support a Research Assistant. Dr. Thomas Barth held this position during 1979-80, and completed a book Axiomatic Potential Theory. D. Deiss was Research Assistant for 1980-81.
- Following my application the Science Research Council awarded a Senior Visiting Fellowship of approximately £10,000 to Dr. S. Mohammed. Dr. Mohammed visited my department for the 1981-82 academic year and completed a book Stochastic Functional Equations, published by Pitman.

RESEARCH FUNDS NORTH AMERICA

2015 \$30,000 per year for five years from NSERC
2014 \$37,000 from NSERC
2012 \$43,000 per year for 5 years from SSHRC
2009 \$18,500 for 2009, \$23,000 for 2010 and \$23,000 for 2010 from SSHRC.
2009 \$46,000 per year for four years from the Electrical Engineering Committee

- of NSERC.
- 2007 \$10,000 MITACS award for Analog Wideband Communications based on Nonlinear Dynamics
 - 2006 \$5,000 MITACS award from TransAlta
 - 2006 \$12,500 MITACS award for Analog Wideband Communications based on Nonlinear Dynamics
 - 2006 \$15,000 MITACS Internship for H. Miao with Encana Corp.
 - 2006 \$15,000 MITACS Internship for L. L. Chan with Quic Financial Technologies
 - 2005 \$50,000 per year for 3 years from SSHRC
 - 2005 \$15,000 MITACS Internship for H. Miao with Enmax Corp.
 - 2005 \$15,000 MITACS Internship for L.L. Chan with Quadrus Financial Technologies
 - 2005 \$7,500 MITACS award from Trans Alta.
 - 2005 \$3,000 MITACS award
 - 2004 \$4,500 MITACS award

 - 2004 \$40,000 per year for four years from the Electrical Engineering Committee of NSERC.
 - 2002 \$20,000 (2002-03), \$20,000 (2003-04), \$19,000 (2004-05) from SSHRC.
 - 2000 \$37,000 per year for four years, 2000 to 2004 from the Electrical Engineering Committee of NSERC
 - 1999 \$15,000 for 1999-2000; and \$22,500 for 2000-2001 and 2001-2002 from SSHRC
 - 1998 210,000 Belgian Francs from NATO for work with F. Dufour, École Supérieure d'Electricité, France

- 1996 \$30,000 per year for 1996-1997 and 1997-1998; \$33,000 for 1998-1999; and \$34,650 for 1999-2000 from the Electrical Engineering Committee of NSERC
- 1996 \$17,000 for 1996-1997; \$17,500 for 1997-1998; and \$18,000 for 1998-1999 from SSHRC
- 1995 \$21,600 for one year from the Electrical Engineering Committee of NSERC
- 1993 \$14,000 per year for three years from SSHRC
- 1993 \$32,000 infrastructure grant from NSERC awarded jointly to members of the dept.
- 1992 \$24,000 per year for three years from NSERC
- 1992 \$97,855 equipment grant from NSERC awarded jointly to 7 members of the dept.
- 1989 \$26,800 per year for three years from NSERC
- 1989 U.S. \$31,873 from the Air Force Office of Scientific Research
- 1988 U.S. \$40,000 from the Army Research office
- 1988 U.S. \$30,841 from the Air Force Office of Scientific Research
- 1987 \$53,248 from the Army Research Office
- 1987 \$35,004 from the Air Force Office of Scientific Research
- 1986 \$15,000 per year for three years from NSERC
- 1986 \$43,091 from the Air Force Office of Scientific Research

RESEARCH FUNDS AUSTRALIA

- 1997 A \$76,000 for 1997; A\$56,000 for 1998; A\$55,000 for 1999 from the Australian Research Council, with Dr. V. Krishnamurthy, Dept. of Electrical and Electronic Engineering, University of Melbourne
- 2008 \$950,000 over five years. Discovery Grant “Dynamic Risk Measures”.

2010 \$195,000 over three years. Discovery Grant with T.K.Siu, Macquarie University,
“R i s k Measures and Management in Finance and Actuarial Science Under Regime-Switching Models”.

2013 \$405,000 over three years with T.K. Siu, Macquarie University, “G-Expectation and Its Applications to Nonlinear Risk Management”.

OTHER POSITIONS:

- Invited by the Royal Swedish Academy to nominate for the Nobel Prize in Economics each year since 2002
- I am a Mathematics Editor for CRC Publishers, an Associate Editor of the journal ‘Stochastics and Stochastics Reports’, an Associate Editor of ‘Mathematical Finance’, an Associate Editor of ‘Communications in Stochastic Analysis’ and an Associate Editor of the ‘Canadian Applied Mathematics Quarterly’.
- From 1996 to 2000 I was on the editorial board of ‘Finance and Stochastics’, published by Springer Verlag. I was a member of the editorial board of S.I.A.M. Journal of Control and Optimization from 1995-1997. Associate Editor ‘Stochastic Analysis and Applications’ 2002 – present.
- From 1988 to 1991 Dr. H. Freedman and I edited Applied Mathematics Notes.
- Member NSERC Grant Selection Committee in Statistics 1993-1995.
- NSERC Grant Selection Committee in Mathematics & Statistics (large equipment) 1993-1994.
- Member of the Review Committee for the Department of Applied Mathematics, Polytechnic University of Hong Kong, February 2000.
- Reviewer of graduate program at Lakehead University, Ontario, September, 2002
- Reviewer of new MBA program in Global Investment at Simon Fraser University, June, 2004
- Scientific Director, Finance Institute, University of Lugano, Switzerland.

- Member (2006) and Chair (2007) of the Doctoral Prize Committee of NSERC.
 - Member of the college of Reviewers for Canada Research Chairs.
 - In January 2008 I was Chair of the NSERC site committee visit NSG 9668 for the National Institute on Complex Data Structures in Toronto ON.
 - In August 2008 I reviewed a 6.6 million Euro (\$10M) research proposal from Ireland.
 - Chair, NSERC site committee visit NSG 9668 for the National Institute on Complex Data Structures in Toronto ON, Natural Sciences and Engineering Research Council of Canada (NSERC)
 - May 2011 Chair, SSHRC Insight Research Development Grants, Social Sciences and Humanities Research Council of Canada (SSHRC)
 - March 2015, Member, Selection Committee for SSHRC Doctoral Awards.
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AWARDS:

- Northern Finance Association, Quebec, September, 2003, \$1000 prize from Quebec Minister of Finance for best Fixed Income paper written with my student Craig Wilson.
 - Northern Finance Association, St. John's Nfld., September 2004. \$1000 Bank of Canada prize for best paper on Canadian capital markets with my former student Craig Wilson.
 - Immigration Award in Science, Immigration Week in Albert, May 1993
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PATENTS:

- Patent "New Finite Dimensional Filters" for applications of optimal parameter estimation in linear Gaussian models, (Kalman filters), filed by the University of Alberta and the University of Melbourne. # PCT/AU097/00519

LIST OF PUBLICATIONS

Robert J. Elliott

- [1] R.J. Elliott, 'Some results in spectral synthesis' Thesis, Cambridge 1964.
- [2] R.J. Elliott, 'A result in spectral synthesis' *Notices of the American Math. Soc.* 11 (1964): 670-671.
- [3] R.J. Elliott, 'Some results in spectral synthesis', *Proc. Cambridge Philosophical Society* 61 (1965): 395-424.
- [4] R.J. Elliott, 'Two notes on spectral synthesis' *Proc. Cambridge Philosophical Soc.* 61 (1965): 617-620.
- [5] R.J. Elliott, 'Analytic functions in locally convex algebras' *Proc. London Math. Soc.* 36 (1966): 321-341.
- [6] R.J. Elliott, 'Inductive limits of uniform spaces' *Journal London Math. Soc.* 42 (1967): 93-100.
- [7] R.J. Elliott, Review of 'Mathematical Surveys' (A.M.S.) Vol. 9. Linear Approximation by A. Sard. *Jour. London Math. Soc.* 41 (1966): 189-190.
- [8] R.J. Elliott, 'Almost hypoelliptic operators' *Proc. London Math. Soc.* 19 (1969): 537- 552.
- [9] R.J. Elliott, 'Almost hypoelliptic operators with variable coefficients' *Proc. Camb. Phil. Soc.* 67 (1970): 287-293.
- [10] R.J. Elliott, 'Some results on hypoelliptic pseudo-differential operators' *Proc. Camb. Phil. Soc.* 68 (1970): 685-695.
- [11] R.J. Elliott, Review of 'Foundations of Global Non Linear Analysis' by R.S. Palais *Bull. London Math. Soc.* 2 (1970): 248-250.
- [12] R.J. Elliott, 'Riesz trace class operators' *Compositio Math.* 22 (1970): 143-163.

7/2/2011

- [13] R.J. Elliott, 'Some results on diagrams of topological groups' *Bull. London. Math. Soc.* 2 (1970): 275-279.
- [14] R.J. Elliott, 'A max-min differential game in Hilbert space' *Int. Jour. Systems Sci.* (1972): 427-433.
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