

CURRICULUM VITAE

Name KHMALADZE, Estate V.

Address

School of Mathematics, Statistics and Computer Science
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Personal Data

Date of birth 20.10.1944
Place of birth Tbilisi, Republic of Georgia, USSR
Marital Status married, wife Mzia, daughter Mariam

Present position

2002– Chair in Statistics, School of Mathematics, Statistics and Computer Science,
Victoria University of Wellington
2001– Leading Researcher, A.M.Razmadze Mathematical
Institute of Georgian Acad. Sc.,

Education and Scientific Degrees

Graduated

1966– from Tbilisi State University, the Faculty of Applied
Mathematics and Cybernetics with special honours
diploma

Degrees

1988– Doctor of Physical and Mathematical Sciences,
Moscow State University
1971– Candidate of Physical and Mathematical Sciences (Ph.D.),
Moscow State University.

Titles

1992– Title of Professor,
Highest Attestation Committee of USSR
1975– Title of Senior Research Fellow,
Academy of Sciences of USSR

Positions Held and Academic Experience

1975–	Senior Research Fellow, Department of Probability Theory and Mathematical Statistics, A.M.Razmadze Mathematical Institute
1979–1991	Head of the Statistics Group of the Department
1991–2000	Head of the Department
1981–1991	Senior Research Fellow of the Department of Probability Theory, V.A.Steklov Mathematical Institute (part-time position)
1979–1990	Head of the project “Computational Problems of Nonparametric Statistics” , V.A.Steklov Mathematical Institute
1985–1991	Head of the Seminar “Functional Methods of Mathematical Statistics”
1992–1993	Visiting Professor, School of Mathematics and Statistics, University of Edinburgh
1996–2001	Senior Lecturer, Department of Statistics, School of Mathematics, University of NSW

Teaching

Past teaching

1971–1978	Special courses in mathematical statistics at Moscow State University
1973–1981	Special courses in mathematical statistics at Tbilisi State University, Faculty of Mathematics and Mechanics
1981–1991	Special courses in mathematical statistics at Moscow State University, Faculty of Applied Mathematics and Cybernetics
1991–1992	Special courses in mathematical statistics, in biometry and in mathematical demography at Tbilisi State University
1992–1993	Main course in probability theory and mathematical statistics, optional course in the theory of rank statistics at the University of Edinburgh
1996–2001	Graduate/masters and undergraduate courses, service subjects at the Department of Statistics, UNSW

Current teaching

2002 – present	Graduate/masters and undergraduate courses at the School of Mathematics, Statistics and Computer Science, Victoria University of Wellington
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Supervision of Ph.D. students (Candidates of Sc.)

1983–	E.Pharsadanishvili
1985–	R.M.Mnatsakanov
1986–	A.Parjanadze
1987–	V.K.Borovikov
1990–	I.Urinov
1995–	A.Nikabadze
1997–	N.Maglapheridze
1998–	Z.Tsigroshvili
1999–	N.Toronjadze
2000–	E.Shinjikashvili
2010–	G. Kvizhinadze
2010–	H. Wu

Research Areas

Probability Theory and Mathematical Statistics,

Nonparametric methods, Empirical processes, Rank statistics, Weak convergence in abstract spaces, Martingale methods in statistics, Point processes, Innovation processes, Records and Extreme values, Change-point problem, Non-crossing probabilities, Differential geometry and set-valued analysis in probability and statistics

Applications,

Biometry (human genetics, physiology), Demography and Insurance Mathematics, Econometry, Reliability, Linguistics, Analysis of Large Number of Rare Events

Conferences - Invited Lectures

1987–1989	Vice Chairman of the Scientific Committee of the Semester on Mathematical Statistics at S.Banach International Mathematical Centre, Warsaw
1989	Lecturer of the Semester (Spring Term)
1990–1991	Member of the Programme Committee of the 19th EMS in Barcelona
1991–1992	Organiser of the session at 20th EMS in Bath, Invited lecturer of the Meeting
1995	Invited lecturer of International Workshop on Empirical Processes and Innovation Martingales, Montevideo, 14–28 July

1998	Organiser of the session at the 14th ASC in Gold Coast, Qld, Australia
1999, January 3–9 11–29	Oberwolfach Conference on Inverse Problems in Statistics Heinrich Heine University, Deusseldorf, University of Karlsruhe, Eindhoven University of Technology, University of Humburg, Technical Univesity of Dresden, Bergacademy Freiberg, University of Giessen
February 2	University of Freiburg
November 7–12	Tbilisi International Seminar on Actuarial Science, Georgian Association of Actuarial and Financial Mathematics (GAAFM), Tbilisi
2001, June 3, 5	Workshop on Inverse Problems, Institute of Henri Poincare, Paris
11	University of Lille
16	EURANDOM, Eindhoven
2002, February 11–16	Oberwolfach Conference on Stochastic Geometry
2002, February, 21, 26	University of Karlsruhe
July, 7 – 12	16th Australian Statistical Conference Canberra
July, 13 – 20	International Conference on Non-parametric Mehtods, Creta
September, 6	Annual Conference of Japanese Statistical Society, Tokyo
September, 12	Workshop on Probabilistic Analysis of Large Number of Rare Events, University of Tokyo
September, 13	Institute of Statistical Mathematics, Tokyo

Recent Conferences and Invited talks

2003, June 21–28,	10th International Summer Conference on Probability and Statistics, Sozopol
2003, August 24 – 31	Oberwolfach Conference on Resampling Methods
2003, September 21–27	Chairman of the International Programme Committee of the Conference in Probability Theory and Mathematical Statistics, dedicated to the centenary of A.N.Komogorov, Tbilisi
2004, February 9–13	Victoria International Conference in Mathematics, Wellington
2004, June 15	Conference of New Zealand Statist. Association
2005, January 1-6,	Conference on Future of Statistical Mehtods, Hyderabad
2005, January 10-12,	Indian Conference in Probability and Statistics, ISI, Kolkata
2005, January 10-15,	2nd Bachelier Colloquium in Financial Mathematics, France
2005, February 10-15,	International Conference in Geometry and Analysis, Auckland University

2005, April 3-10,	International Workshop on Matrices and Statistics, Massey University (Albany)
2005, December 12-13,	EURANDOM Workshop on Economics of Finance and Extremes,
2005, December 16-20,	ESF Workshop on Model Specification. Santander, Spain
2006, June 24-30,	ANZ Conference in Statistics, Auckland
2007, January 2-6,	ISA Conference in Statistics, Cochin, India
2007, July 10,	Talk on “Set-differentiation”, Department of Pure Mathematics, SMS, UNSW
2007, July 13,	Talk on “New approach to testing problems in non-parametric regression”, Department of Statistics, SMS, UNSW
2007, July 16,	Talk on “VaR problems for m -fold convolutions”, National Australia Bank, Sydney
2007, September 23-28,	14 Workshop on Stochastic Geometry, Neudittendorf, Germany
2007, November 14,	Talk ”From change-point problem of statistics to new calculus for set-valued functions”, Georgian Mathematical Society, Tbilisi
2007, December 3,	Talk on ”Distribution free goodness of fit approach in non-parametric regression”, Institute of Mathematics, University of Karlsruhe
2007, December 11-15,	ISI Platinum Jubilee Conference, Calcutta
2007, December 17-19,	Hyderabad Symposium on Probability and Statistics
2008, January 4-28,	Cycle of seminar talks “From change-set problems of statistics to set differentiation, and via Voronoi tessellations”, Hong Kong Baptist University, Hong Kong
2009, November 3-4,	Wellington Workshop in Probability Theory and Mathematical Statistics
2010, June 6-9,	Invited lecturer at Finnish Summer School in Probability Theory and Statistics
2010, August 2-5,	Invited speaker at Joint Statistical Meeting of ASA and IMS, Vancouver
2010, December ,	Key-note speaker at Asia-Pacific International Symposium on Advanced Reliability and Maintenance Modeling (APARM 2010)
2011, July,	Invited speaker and Session organizer at IMS Regional Asia-Pacific Meeting, Tokyo – Meeting postponed till 2012
2011, October 2-9,	Invited speaker at Oberwolfach Conference “Very High Dimensional Semi-parametric Models”, Oberwolfach Mathematics Research Institute, Oberwolfach
2011, November 28-30,	3rd Wellington Workshop in Probability Theory and Mathematical Statistics, Wellington
2011, December 5-8,	Invited speaker and lecturer at the Workshop on “Asymptotic Methods for Data Science”, Keio University, Tokyo
2012, January,	“Durations of Reign of Chinese Emperors”, Public lecture at Tbilisi State University

2012, January,	Presentation to Georgian Mathematical Union
2012, July	Session organizer and invited speaker at "Interaction of geometry, analysis and spacial statistics", IMS APR Meeting, Tokyo.
2013, January,	Invited speaker at ANODE conference (dedicated to Prof. John Butcher), University of Auckland
2013, November,	Two seminars – in probability theory and in statistics, Manchester University
2013, November,	Seminar at Centre for Research into Ecological and Environmental Modelling, University of St Andrews
2013, November,	Seminar at Statistical laboratory, Cambridge University
2013, November,	Seminar in Statistics and Econometrics, London School of Economics
2013, December,	Plenary talk at International Conference in Statistics, C R Rao Advanced Institute of Mathematics, Statistics and Computer Science, Hyderabad
2014, January1-3,	Seminar at Indian Statistical Institute (Bangalore branch)
2014, April–May,	Seminar at "Lakeside seminar series", National Taiwan University, Taipei
2014, June–July,	Distinguished Lecturer, IMS APR Meeting, Taipei

Seminars in New Zealand (since March 2002)

2002, February–March	Cycle of four seminar talks on "Martingale Methods in Orthodox Statistics"
2004, March	"Statistical Methods for Sparse Data", University of Canterbury, Christchurch
2004, April – May	Cycle of seminars talks of "Statistical Theory of Large Number of Rare Events and Estimation of Abundancies"
2005, November	"Martingale approach to testing problems in parametric regression" Otago University, Dunedin
2006, June	Seminar talk on "Differentiation of set-valued functions - relationship with the theory of generalised functions"
2006, August	Seminar talk on "Change-set problem of spacial statistics"
2006, November	Wellington Statistics Group Seminar talk on "Unusual Examples on Computations in Statistics"
2007, June 8,	"New approach to differentiation of set-valued functions", Department of Mathematics, University of Auckland
2007, June 8,	"Distribution free methods in non-parametric regression" Department of Statistics, University of Auckland
2008, February 22,	"Non-parametric confidence bounds for the tail of distribution function and the remaining life time", Victoria University
2008, September 17,	"On diversity of questionnaires and probabilities of large

2009, September 17,	deviations”, Victoria University “How to detect small changes in statistics and what happens when we try to catch elusive objects?” - Public lecture in SMSOR Colloquium series dedicated to the formation of the new School
2010, February - March, 2011, 2-3 March,	Sequence of seminar talks on “Statistical theory of diversity”, MS Invited talk “On a recent progress in differentiation of set-valued functions and related problems in probability theory” International Workshop in Probability Theory, School of Statistics University of Auckland
2012, January,	ANODE Conference in Honour of J. Butcher, School of Mathematics, University of Auckland
2013, November, 2013, December,	Invited speaker, NZSA Conference in Nelson Invited speaker at 4 Wellington Workshop in Probability Theory and Mathematical Statistics
2014, January,	Invited speaker at International Workshop in Probability Theory Te Anau (organiser – Auckland University).

Miscellaneous

1989–1991	Associate Editor of The Annals of Statistics
1991–	Associate Editor of Mathematical Methods of Statistics
1998–	Vice-President of Georgian Statistical Association
1998–	Member of Council of the International Centre for Mathematics, Tbilisi
2000–	Associate Editor of Georgian Mathematical Journal
2002–	Associate Editor of Statistics and Probability Letters
2003–	Associate Editor of Annals of the Institute of Statistical Mathematics