

**THE UNIVERSITY OF ALBERTA
DEPARTMENT OF MATHEMATICAL and STATISTICAL SCIENCES**

**M.Sc. (Thesis-based) Degrees
1954-present**

Completed	M.Sc. Thesis Title	Student	Supervisor
1954/04/07	Numbers generated by the function $e^{en}-1$	H.C. Finlayson	L. Moser
1955/10/08	On the distribution of sums of digits	J.R. Trollope	L. Moser
1956/10/09	Isometries in a certain class of minimal surfaces	L.G. Hoye	H. Helfinstein
1957/05/01	On the statistical analysis of minimum values with application to drought data	D.E. Birnie	Aggarwel
1957/06/01	An optimal property of the Poincaré model of hyperbolic geometry	A.A. Czeuz	H. Helfinstein
1958/04/15	Some function space topologies	P.Bancroft	S.A. Naimpally
1958/04/17	On some some problems of combinatorial number theory	H.M.W. Edgar	L. Moser
1960/12/01 copies)	On bases for sets of integers	J. Riddell	L. Moser (x2
1961/08/08	Moment generating functional equations of certain stochastic learning models	Y.Y. Hui	J.R. McGregor
1961/10/06	The approximate distribution of the ratio of the square successive difference to the square difference in observations from a stationary normal Markov process	A.C.A. Patton	J.R. McGregor
1962	The Gibbs phenomenon of sequences and Fourier series	R.L. Forbes	L. Lorch
1962/10/12	The numerical solution of partial differential equations by closed difference methods	W.A. Murray	J.J. McNamee
1962/12/19	Some numerical studies in the theory of numbers	M.L. Falkner	L. Moser
1963/03/06	On the density of sets of integers	H.L. Abbott	L. Moser
1963/05/01	Numerical integration in n dimensions	F. Stenger	E.L. Whitney (x 2 copies)
1963/07	Two- dimensional flows under gravity with a free surface	W.K. Nicholson	J.R. Pounder (x 2 copies)
1963	Error correction codes for asymmetric path	C.M. Fenyvesi	Peck (Calgary)
1963/08/13	Asymptotic distributions of response probabilities for a stochastic learning model	J.V. Zidek	J.R. McGregor
1963/08/15	Nonlinear systems and nonlinear programming	A. Kuhn	J.J. McNamee

1963/08/27	Representations of some finite groups	W. Brauer	W.T. Sharp
1963/09/18	The approximate distribution of the correlation between two stationary linear Markov series with fitted means	U.M. Bielenstein	J.R. McGregor
1963/10/04	Numerical solution of differential equations	B.J. Mailloux	R.S. Julius
1963/10/09	Numerical solution of functional equations arising in stochastic learning models	G.S. Marlist	J.J. McNamee/J.R. McGregor
1964/01/21	Rational approximations	G.R. Jackson	J.J. McNamee
1964/04	Approximate distribution functions of certain sample serial correlation coefficients	C.A. Patrick	J.R. McGregor
1964/04	On some combinatorial problems arising in probability theory and statistics	V.K. Rohatgi	T.V. Narayana
1964/04/20	The approximate distribution of the serial correlation of a prestationary linear Markov process	S. Abbas	J.R. McGregor
1964/04/28	Axially symmetric gravitational fields in general relativity	K.A. Khan	W. Israel
1964/06/12	Score problems of round-robin tournaments	D.H. Bent	T.V. Naruyana
1964/08/04	External overlap with respect to translation	M.G. Murdeshwar	L. Moser (x 2 copies)
1964/09/14	Results connected with linear difference equations	D.A. Klarner	L. Moser
1964/10/05	Relativistic irreversible thermodynamics	D. Aitken	W. Israel
1964/12/04	Probabilistic and deterministic aspects of digital computers	W.S. Adams	J.J. McNamee
1965/09	Explicit estimates in the theory of distribution of Primes	D. Hanson	L. Moser
1965	Gibbs phenomenon and Lebesgue constants	F. Ustina	A.E. Livingston (x 2 copies)
1966/04/02	Theory of sheaves	P.O. Manley	C.S. Hoo
1966/09/08	Double sequences and series	V.W.S. Leung	A.E. Livingston
1966/09/15	Nets and filters in topology	I. Baggs	S.A. Naimpally
1966/10/06	Results on the automorphism group of a graph	M. Goldberg	J.W. Moon
1966/10/26	Mixtures of Poisson distribution	R.K. Varahamurti	J.R. McGregor
1967/01	A variation of the Tchebycheff Quadrature problem on the infinite interval	W.A. Walker	?
1967/03/29	The empirical Bayes problem	G.C. Kozub	K.L. Mehra

1967/04/14	A generalization of a test of coplanarity based on the Fisher distribution	J. Hubert	J.R. McGregor
1967/06/28	On a particular class of sigma-monogenic functions	R. Jorstad	J. Sanders
1967/07/19	Topologies for almost continuous functions	E.D.J. Buckley	S.A. Naimpally
1967/07/28	Cosmological solutions in general relativity	B.E. Smith	J.R. Trollope
1967/10/11	on proximity spaces	B.D. Warrack	S.A. Naimpally
1968/05/03	Some operator normalities on Banach spaces	T. Owusu-Ansah	J.S.W. Wong
1968/05/08	β -groups	A. Buckley	R.D. Bercov
1968/05/10	The probability distribution of the measure of a random linear set	D.D. Beck	J.R. McGregor
1968/05/16	The commuting function conjecture	J. Hornby	D.W. Boyd
1968/08/21	The asymptotic behaviour of the solution of elliptic and parabolic partial differential equations	N.N.-P. Ting	R.G. Sinclair
1968/09/03	Homology and cohomology	E.G. Chislett	C.S. Hoo
1968/09/27	Nonlinear Sturm-Louville boundary value	M.F. Estabrooks	J.W. Macki (x 2 copies)
1968/10/31	The approximate power of a test for serial independence in a stationary linear Markov process	J.A. Hanson	J.R. McGregor
1968/11/01	On a problem of G. Kreweeras	E.B. Goodman	T.V. Narayana
1968/12	A class of gravity flows	M.F. Estabrooks	R.J. Tait
1969/01/03	Problems in vibration of nonlinear threadlines	L. Laframboise	R.J. Tait
1969/02/18	Generalizations of some fixed point theorems in metric spaces	K-T. Ng	T.D. Rogers
1969/04/15	The Turan expressions	M.N. Bajaj	W.A. Al-Salam
1969/04/15	Some function space topologies	P. Bancroft	M.G. Murdeshwar
1969/04/23	A comparison of tournaments	M.D. Hopkins	T.V. Narayana
1969/06/04	Classification of polynomial sets	M.E.H. Ismail	W.A. Al-Salam
1969/08/18	Lyapunov stability of some transformed equations	T.L. Beach	H.I. Freedman
1969/08/29	A Kerr-Vaidya radiating metric	M. Murenbeeld	J.R. Trollope
1969/10/03	Dual integral equations	M.I. Ahmad	W.A. Al-Salam
1970/01/30	Some asymptotic non-central distributions of the linear regression coefficient	P.J. Capell	J.R. McGregor
1970/04/20	Some uses of APL in the theory of tournaments	H.G. Morin	J.W. Moon

			(x 2 copies)
1970/06/09	Fixed point theorems in analysis	E.R. Graff	J.W. Macki
1970/07/27	A non-standard proof of the Hahn-Banach extension theorem	S.K. Jolly	H. Lowig
1970/08/21	Queing theory and actual telephone exchange Experience	S.F. Schellenberg	E.G. Ghurye (x 2 copies)
1970/08/21	Testing hypotheses concerning parameters which are random variables	H.P. Jagani	E.G. Ghurye
1970 Fall	On perturbation theory applied to ordinary differential operators	D. Pitney	H.I. Freedman
1970/09/28	Classification of the tracefree Ricci tensor	G.P. Scanlan	G. Ludwid
1971/04/19	Long term projections of the utilization of crude oil in the United States	A.B. Fitzpatrick	E. Keeping
1971/06/07	Adjoining an identity to a ring	I.E. Gorman	S.K. Sehgal
1971/08/06	On unitary perfect numbers	C.B. Quirk	M.V. Subbarao
1971/11/02	The relativistic Boltzmann equation	J. Vardalas	W. Israel
1972/03/09	On right cyclically ordered groups	B.C. Oltikar	A.H. Rhemtulla
1972/03/23	Relatively convex subgroups of ordered groups	D. Tosh	A.H. Rhemtulla
1972/03/24	Some results on arithmetic progressions	A.C.F. Liu	H.L. Abbott
1972/03/29	Behaviour of solutions to generalized differential equations	J.W. Van Kirk	L.H. Erbe
1972/04/28	Primitive sequences and sequences of positive upper logarithmic density	H. Henshaw	H.L. Abbott
1972/06/07	Convergence properties of spline functions	Y. Mao	A. Meir
1972/06/28	The approximate distribution of the regression coefficient between two stationary linear Markov series	R. Routledge	J.R. McGregor (x 2 copies)
1972/09/06	Products of paracompact and normal spaces	L. Lindenburg	S.W. Willard
1972/09/15	Robust estimates of location: intermediaries between sample mean and median	L.Z. Ferenzi	R. Ponnappelli
1973/01/19	On a mathematical theory of inhomogeneous isotropic materials	G.R. Graf	R.J. Tait
1973/01/29	EDF-statistics in the case of exponential distribution	S.O. Larsson	S.G. Ghurye
1973/02/21	Static black holes in Brans-Dicke theory	R.A. Seibel	S.W. Willard
1973/04/16	Mathematical modelling in neural activities	D. Williams	M.N. Oguztoreli

1973/04/18	Localization in the category of topological spaces	Z-e-K. Zia	C.S. Hoo
1973 Spring	Play the winner binomial selection	R. Sugavanam	E. Nordbrock
1973/06/18	Degree of approximation by rational functions	A.R. Gower	A. Meir
1973/07/30	Information and Markov processes	M.G. Bickis	S.G. Ghurye
1973/11/05 (Physics)	Time measurement in quantum mechanics	P.A. Carlson	M. Razavy
1974/03/09	A comparison of the effectiveness of tournaments	J.P. Hill	T.V. Narayana
1974/04/25	Identities of F-algebras	D. Barager	J.L. Fisher
1974/05/15	Spin and gravitation	I. Bailey	W. Israel
1974 Fall	The multicollinearity problem in regression analysis	P. Chan	Feuerverger
1974/09/10	Problem of ties in some nonparametric tests	S.K. Tripathi	K.L. Mehra
1974	Some problems on addition claims	K. Hebb	M.V. Subbarao
1974	Statistical independence and distribution of quadratic forms in normal random variables	P. Rana	Nordbrock
1975/07/31	Primitive permutation groups of degree prime power degree	B. Mortimer	R.D. Bercov
1975/08/01	A singular boundary value problem	F.B. Sato	J.S. Muldowney
1975/08/20	Approximation by rational interpolation operators	W.D. Cairns	A. Meir
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1975/10/01	Burside groups through function modules	J.A. Price	R.D. Bercov
1976/01/05 Kunzle	Geometry, rigid bodies and constrained motion	J. Baxter	J.R. Trollop/H.
1976/09/22	The limiting distribution of the measure of a random set	A.R. Londhe	J.R. McGregor
1977/06/29	Spaces of locally constant connection	E. Ruhnu	J.G. Timourian
1977/08/17	A variational approach to certain nonlinear boundary value problems	E. Leonard	J.W. Macki
1977	A mathematical model of a predator-prey system with periodic carrying capacity	L. Manetto	H.I. Freedman
1978/04/26	The classification of monotone analytic functions on surfaces	C. Small	J.G. Timourian
1978/08/16	A study on predator-prey food chains	J.W-H. So	H.I. Freedman
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1979/01/30	m-n compact spaces	U. Dissanayake	S.W. Willard
1979/06/15	Data dependent treatment allocation in two-population sequential testing	R.G. Walker	D.H. Kelker
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1979	The asymptotic distribution of a serial correlation coefficient of a linear Markov process	J. Berkowitz	J.R. McGregor
1981/10/08	The unit groups of certain group rings	B.G. Giles	S.K. Sehgal
1981/10/23	Isolators in polycyclic groups	M.F. Yousif	A.H. Rhemtulla
1982/01/28	Autocorrelated differences in paired samples: the asymptotic distribution of the square of the T statistic for a first order autoregressive Gaussian process	J. C. Babb	J.R. McGregor
1982/04/20	Non-uniqueness and limiting aspects of automatics history matching	B. Berkowitz	R.F. Millar and S.M. Farouq-Ali
1982/10/26	Mark-recapture estimates for an age-structured, time-dependent population	S.J. Barry	R.D. Routledge
1982	Real polynomial maps with isolated singularity at the origin	A. Al-Dhahir	J.G. Timourian & Scherk
1983/01/01	Estimation of quantile infinite population with super-M.Z. Islam population model		K.L. Mehra
1983/04/20	Invariant means on function spaces on semitopological semigroups	B.E. Forrest	A.T. Lau
1983/07/06	Martingale-like processes	B. Schmuland	A.N. Al-Hussaini
1983	No title	G. Chung	G.H. Cliff & A.H. Rhemtulla
1984/08/15	Bounds for Eigenvalues	R. Kumar	H. Wolkowicz
1984 Fall	Mathematical analysis of DNA supercoiling	C. Jackson	J.G. Timourian
1984/10/10	Hidden symmetry in monopoles	L.M. Bates	H.P. Kunzle
1985/04/19	Some isomorphism invariants of ZG	S.D. Kmet	S.K. Sehgal
1985/06/26	Tensor products of Banach spaces with unconditional bases	M. Strauch	N. Tomczak-Jaegermann
1985	Amenable actions of locally compact groups on coset spaces	M. Skanthurajah	A.T. Lau
1986/10/21	Sufficiency criteria for optimal control theory	D.J. Orrell	V. Zeidan
1987/07/30	Paired comparison of time series under a type of dependence	A.P. Illeperuma	J.R. McGregor

1987/07/31	Methods of solving large systems of linear equations on supercomputers	S. Nallanthighall	Y.S. Wong & W. Allegretto
1987/08/17	Portfolio analysis	H.G. Wilkinson	C.S. Hoo
1987/08/21	Color-critical hypergraphs	D.R. Hare	H.L. Abbott
1987/09/15	On some nonparametric methods in reliability	M.G. Lu	A.A. Aly
1987/10/13	Birkhoff interpolation for Chebyshevian splines	Z. Shen	S.D. Riemenschneider
1987/10/15	Asymptotic trees in Banach spaces with Schauder bases	D.P. McLaughlin	V. Zizler
1987	Paired comparison of time series	I. Pear	J.R. McGregor
1988/04/27	On geometric properties of operators	J.D. Vanderwerff	V. Zizler
1988/06/02	Dichotomies without bounded angular separation	C. H. Evans	J.S. Muldowney
1988/06/30	Oscillation criteria for nonlinear differential and integro-differential equations	Q. Kong	L.H. Erbe
1988/07/22	Impedance calculations for arterial models	R. Gan	T.B. Moodie
1988/10/14	Calculation of augmentation terminals	J. Kmet	S.K. Sehgal
1988	Some oscillation and non-oscillation results for the generalized Emden-Fowler equation $(r(x)y')' + p(x)y^{\gamma} = 0$	H. Lu	L.H. Erbe
1989/04/25	Boundary initiated wave phenomena in rigid and elastic heat conductors	T. S. Öncü	T.B. Moodie
1989/04/25	Finitely generated soluble groups satisfying identities on subgroups	J. Semple	A.H. Rhemtulla
1989/09/05	Martin's axiom and topology	D. Nqvi	S.W. Willard
1989	Application of Godunov's scheme to the propagation of waves in nonlinear elastic string	K. Abdella	R.J. Tait
1989	Nearest neighbor classification rules for multiple observations	S.C. Bagui	K.L. Mehra
1990/06/18	A local mesh refinement technique for multi-grid method on elliptic equations	A.K. Chien	Y.S. Wong
1990/07/24	Similarity solutions for a class of non-Newtonian fluid flows	J-P. Pascal	R.J. Tait
1990/08/02	Asymptotic behavior of U-statistics for stationary strong mixing processes	X. Gu	K.L. Mehra
1990/10/11	Optimal, robust, rank-based estimators in the linear model	Y. Wang	D.P. Wiens

1990/12	Loglinear and logit models	M.Y.P. So	G. Flowerden/ J. Sheahan
1990/09/13	Martin boundary for discrete Markov chains	L. Aggoun	B.A. Schmuland
1990	Approximations to the distributions of some robust test statistics	Q. Wang	D.P. Wiens
1991/03/28	The signalling problem in nonlinear hyperbolic wave theory	Y. He	T.B. Moodie
1991 Spring	On type N twisting vacuum spacetimes	Y.B. Yu	G. Ludwig
1991/08/02	On non-oscillation of linear difference systems	R.N. Lafaut	J.S. Muldowney
1991/08/15	A class of viscoelastic waves in rods and fluid filled tubes	Y. Peng	R.J. Tait
1991 Fall	Geometric lattices and their theta functions	P. Zizler	A. Pianzola
1991 Fall	Biorthogonal systems in Banach spaces	P. Karbaliotis	V. Zizler
1991/11/29	Semiprimitive complete p-adic group algebras	A. Herman	M. Shirvani
1992/04/23	The role of negative energy waves in parallel shear flow instability in hyperelastic fluid-filled tubes G.E. Swaters		C.B. Ropchan
1992/05/20	Bounded-Influence R-Estimators in the Linear Model	J. Zhou	D.P. Wiens
1992/07/31	The effect of alongshore topographic variation and bottom friction on shelf wave interactions	F. Primeau	G.E. Swaters (x 2 copies)
1992	Using measurement error model to study the shelter effect	T.Y.S. Leung	D.P. Wiens
1992	Analysis of data on the distribution of melanophore counts of amphibian embryos	M. Samarakoon	D.W. Kelker
1992	Some results on multiparameter Skarahad integrals	L. Tang	A.N. Al-Hussaini
1992	Inference following Box-cox transformation	Z.L. Yang	P.M. Hooper
1993/10/08	Parallel domain decomposition of heat equation	O. Verevka	Y. Lin
1993	Applications of sequential change-point detection methods	S. Kibrya	E. Gombay
1993	Polynomial invariants of finite reflection groups	N. Lemire	A. Pianzola
1993	Control and filtering of random processes	H. Yang	R.J. Elliott
1993	Evaluating the aspects of coach-athlete interaction that affect the sport confidence of an athlete, and evaluating the placement of the direct object in sentence structure	x. Zang	D.H. Kelker
1994/06/27	Proto-differentiation and EPI differentiation	S.K. Boralugoda	R.A. Poliquin

1994/07/12	On nonparametric inference for the comparison of some measures of income inequality	M. Hervas	E.E. Aly
1994/08/05	American put options	D. Salopek	R.J. Elliott
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1994/08/25	Application of empirical likelihood estimation in survival data analysis and survey sampling	E. Benhin	N.G.N. Prasad
1994	Jordan-Chevalley decompositions and the Wedderburn-Malcev theorem	F. Szechtman	A. Pianzola
1994	A discussion of surjective cellular automata	C. Want	T.D. Rogers
1995/01/18	Jackknife methods in robust regression	Z. Du	D.P. Wiens
1995/04/19	The turbulent dissipation of internal solitary waves in a continuously stratified fluid of finite depth	P.G. Timko	G.E. Swaters
1995/08/31	On the Hamiltonian structure, stability characteristics and finite-amplitude evolution of geostrophic fronts	C. Slomp	G.E. Swaters
1995/10/05	Generators of large subgroups of general linear groups over group rings	G.T. Lee	S.K. Sehgal
1995/10/06	K-theory: the Brauer group and algebraic cycles	R. Deary	J.D. Lewis
1995	Finite amplitude baroclinic instability of a mesoscale gravity current in a channel	C. Mooney	G.E. Swaters
1995	Embeddings of rings into skew fields	J. Valencia	H. Brungs
1995	Generalised optimal stopping and financial markets	D. Wong	R.J. Elliott
1996/06/20	Bendixson criteria for difference equations	C.C. McCluskey	J.S. Muldowney
1996/08/08	Sign test for change-point problem	X. Jin	E. Gombay
1996/09/18	Applications in finite of hidden Markov models	B. Jamieson	R.J. Elliott
1996/12/09	Modelling heat and mass transport in biological tissues during freezing	C. Studholme	T.B. Moodie & L.E. McGann
1997/01/23	Sequential testing of multiple hypotheses	J. Coull	Y. Wu
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	maximum likelihood		& R.J. Read
1997	Mesoscale gravity currents and cold-pools within a continuously stratified fluid overlying gently sloping topography	F. Poulin	G.E. Swaters
1998/01/04	On the gracefulness of girders and big wheels	D.E. Adams	A.C.F. Liu
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1999/12/21	Permutation modules and representation theory	P.S. Campbell	G.H. Cliff
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2000/08/21	Sequential tests for monitoring parameters of a nested random effects model	E. Atenafu	E. Gombay
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2001/07/12	Black hole solutions of 5-dimensional relativity with new horizon topologies	C.D. Cadeau	E. Woolgar
2001/10/01	Mathematical model of an agricultural industrial ecospheric system	I. Agyemang	J. Macki
2001/10/25	Mathematical model of influenza for interspecies transmission between humans & pigs & its role in human influenza infection	J. Lee	J. So
2001/12/19	Modular invariants for the affine algebra $C^{(1)}_2$	P.J. Elliot	T. Gannon
2002/01/30	Processing of daily agroclimatic data	D. Griffith	S. Shen
2002/03/18	Application of stochastic models in scrap processing problem under JIT	T. Ding	R. Karunamuni
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2002/08/22	On application of a scoring procedure for ordered categorical data with WCWL	E. Yang	N. Prasad
2002/08/30	Regulators in algebraic geometry	A. Roberts	J.D. Lewis
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2002/12/19	Embedding domains in skew fields	N. Zanella	H. Brungs
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2003/07/17	Intrusions and IGW forcing in stratified media	M. Flynn	B. Sutherland
2003/07/30	Modeling stability of growth between mathematics and science achievement via multilevel designs with latent variables	L. Ma	S. Shen

2003/08/27	Hall and Knight's higher algebra: the theory of equations	T. Holloway	A. Liu
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2003/09/17	Lie nilpotence and lie solvability in group algebras	B. Baird	S. Sehgal
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