Curriculum Vitae
of
Michael Stewart

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Contact Details

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Employment

Jan 2005–	**Lecturer**
Jan 1996–Dec 2004	**Associate Lecturer** School of Mathematics and Statistics University of Sydney
Jan 1994–Dec 1995	**Research Assistant** Department of Physiology University of Sydney

Education

Tertiary qualifications obtained from the University of Sydney:

Doctor of Philosophy	Awarded degree Dec 2002
Thesis:	"Asymptotic methods for tests of homogeneity for finite mixture models"
Master of Arts	Awarded degree Feb 1996
Thesis:	"Non-regular maximum likelihood for release at synapses"
Bachelor of Science	Awarded degree Jan 1994

Research Interests

Mixture Models, Extremes of Gaussian Processes, Empirical Process Approximations, Statistical Inference in the Life Sciences.

Publications

- Hall, P. and Stewart, M., *Theoretical analysis of power for a two component normal mixture model*, Journal of Statistical Planning and Inference, 134 (2005), 158–179.
- Stewart, M. and Robinson, J., *Extremes of certain non-Donsker empirical processes*, Extremes, 6 (2003), 319–333.
- J.F.P. Bridges, M. Stewart, M.T. King, K. van Gool, *Adapting portfolio theory for the evaluation of multiple investments in health with a multiplicative extension for treatment synergies*, European Journal of Health Economics, 3 (2002), 47–53.
- Chiu, S. N., Quine, M. P., Stewart, M., *Nonparametric and parametric estimation for a linear birth–growth model*, Biometrics, 56 (2000), 755–760.

Conference Presentations

July 2004	6th Joint Bernoulli Society/ Institute of Mathematical Statistics Meeting, Barcelona *Power for tests of no mixture*
December 2003	Bernoulli Society East Asian and Pacific Regional Conference, Hong Kong (invited speaker) *Asymptotics for tests of homogeneity in exponential family mixtures*
July 2002	28th Conference on Stochastic Processes and their Applications, Melbourne *Asymptotic methods for tests of homogeneity* *in finite mixture models*
July 2000	15th Australian Statistical Conference, Adelaide *On the simple mixture problem*

Award

Statistical Society of Australia, N.S.W. Branch, Award for Postgraduate Excellence, 2001 (joint winner).

Seminars

Presented at the University of Sydney Statistics seminar series:

May 2002	*Asymptotic methods for tests of homogeneity* *in finite mixture models*
June 2001	*On the simple mixture problem*
Aug 1999	*Asymptotic distribution of the supremum of a* *non-stationary Gaussian process*

Computing Skills

Experienced in the use of S-PLUS, R. Some knowledge of GLIM and MATLAB.

Teaching Experience

Teaching duties at the University of Sydney over the period 1996–2005 include

- designing a new course on the Design of Experiments (Advanced) for third year students;
- lecture delivery for and coordination of courses on the Design of Experiments for third year students, Data Analysis and Statistical Models for second year students and Introductory Statistics courses for first year students at various levels of assumed mathematical ability;
- tutoring for all the above courses, as well as third year courses in Linear Models, and second year courses in Estimation Theory and Hypothesis Testing.