

Curriculum Vitae

Harold Malcolm HUDSON

Business Address:

Department of Statistics, EFS,
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Qualifications

B.Sc. with Hons. 1 in Mathematics,
University of N.S.W., 1970

Ph.D. in Statistics, Stanford University, 1974.
Thesis title: Empirical Bayes Estimation.
Thesis supervisors: Lincoln Moses, Charles Stein.

Appointments (recent)

2001 – Professor of Statistics (personal chair)
Macquarie University
1999 – 2003 Principal Research Fellow (0.2, research only)
NHMRC Clinical Trials Centre, University of Sydney
2000 Visiting Associate Professor,
Division of Biostatistics, University of Minnesota

Honours and Awards (recent)

Elected member, International Statistical Institute, 2001
Award, Institute of Electrical and Electronic Engineers, 2001.

PROFESSIONAL ACTIVITIES

International Statistical Institute

Chair, Nominations Committee, IASC, 2002-2005
Board member - International Association for Statistical Computing, 1997-
2001
Scientific Secretary - International Association for Statistical Computing,
1995-97

Referee (recent)

Medical J. Australia.

Supervision of Postgraduate Students (recent)

Dr. S. Nitsuwat,
Ph.D., 2001 University of NSW (co-supervisor).

Mr. D. Warton,
Ph.D., 2004, Macquarie University (co-supervisor).

Grants (recent)

2003-2007 National Health and Medical Research Council, Program Grant:
Clinical Trials Centre, University of Sydney, \$7.5 million (Principal
Investigator, CIs J. Simes, A Keeche, V. GebSKI, I. Marschner)

2001 Australian Research Council:
Smoothed non-parametric modelling for high dimensional parameter spaces,
\$23,000 (with B. Hutton, A. Kozek, I. Marschner).

PUBLICATIONS (last 5 years)**Invited sessions**

- Invited speaker, IBC2004 Satellite Workshop,
Sydney, July, 2004
- Invited speaker, International Clinical Trials Symposium,
Sydney, November, 2002
- Invited speaker, Nonparametric Statistics Conference,
Crete, July, 2002
- Invited speaker, Summer Statistics Workshop,
University of Sydney, February, 2001

Refereed Journal Articles/ Abstracts

- [c10] L. Li, H. M. Hudson. , International Differences in 30-day Mortality following Acute Myocardial Infarction: Statistical Analysis of Site Level Data from the HERO-2 Trial. Macquarie Statistics Research Papers, November, 2005. (Abstract: full submission to J. Clin. Trials).
- [c9] Rachel L. O'Connell, H. Malcolm Hudson, R. John Simes, Ian C Marschner, and Harvey White. Risk models for mortality after acute myocardial infarction: development and validation based on HERO-2, a multinational clinical trial. Macquarie Statistics Research Papers, November, 2005. (Abstract: full submission to Statistics in Medicine).
- [c8] Zhixin Liu, Malcolm Hudson, Sarah Lord, and Val GebSKI. Decision models for valuing effectiveness of new diagnostic technologies – with application to PET diagnostic testing. Macquarie Statistics Research Papers, December 2004. (manuscript).
- [c7] Ling Li and Malcolm Hudson. Regional differences in 30-day mortality of acute myocardial infarction: statistical analysis of site level data from the HERO-2 Trial. Macquarie Statistics Research Papers, October 2005. (manuscript).
- [c6] H. M. Hudson, V. DeGruttola, C. Hargreaves, and V. GebSKI. Analysing variability in study effect among trials. Macquarie Statistics Research Papers, August 2004. (manuscript).
- [c5] D. I. Warton and H. M. Hudson. A MANOVA statistic is just as powerful as distance-based statistics, for multivariate abundances. *Ecology*, 85(3):858–874, 2004.
- [c4] P. Glare, K. Virik, M. Jones, M. Hudson, S. Eychmuller, N. Christakis, and J. Simes. A systematic review of physician survival predictions in terminally ill cancer patients. *British Medical Journal*, 327(7408):195–198, 2003.

- [c3] M. Hudson, A. Langlands, and J. Simes. Risk models for individual decision making in medicine. In Chandra Gulati, Yan-Xia Lin, Satya Mishra, and John Rayner, editors, *Advances in Statistics, Combinatorics and Related Areas*, pages 120–132. World Scientific, 2002.
- [c2] David Warton and Malcolm Hudson. Testing hypotheses concerning multivariate abundance data. In Chandra Gulati, Yan-Xia Lin, Satya Mishra, and John Rayner, editors, *Advances in Statistics, Combinatorics and Related Areas*, pages 349–360. World Scientific, 2002.
- [c1] T. Lumley, R. Simes, V. Gebski, and H. Hudson. Combining components of quality of life to increase precision and evaluate tradeoffs. *Statistics in Medicine*, 2001.

Conference Proceedings (refereed)

- [e3] H.M. Hudson, N.R. Arghami, and G. Kontaxakis. Generalized Iterative Scaling algorithm evaluation. In W. Jansen and J.G. Bethlehem, editors, *Proceedings in Computational Statistics 2000*, pages 37–38, Statistics Netherlands, 2000.
- [e2] S. Nitsuwat, J. S. Jin, , and H. M. Hudson. Motion-based video segmentation using fuzzy clustering and classical mixture model. In *Proceedings of the International Conference on Image Processing (ICIP'2000)*, volume 1, pages 300–303. IEEE Press, 2000.
- [e1] H.M. Hudson, N.R. Arghami, and G. Kontaxakis. Generalized Iterative Scaling algorithm evaluation. In W. Jansen and J.G. Bethlehem, editors, *Proceedings in Computational Statistics 2000*, pages 37–38, Statistics Netherlands, 2000.

Conference Proceedings (unrefereed)

- [o2] Zhixin Liu, Malcolm Hudson, Sarah Lord, and Val Gebski. Decision models for valuing effectiveness of new diagnostic technologies – with application to PET diagnostic testing. In *Proceedings of ISI 2005, Sydney*, 2005. Conference CD.
- [o1] Malcolm Hudson and Adrienne Kirby. Relative efficiency of parametric and bootstrap estimates of cost. In *Proceedings of ISI 2005, Sydney*, 2005. Conference CD.

Work in progress

- [o3] V. DeGruttola, H. M. Hudson, C. Hargreaves, and V. Gebski. Meta estimation with variability in study effects. (for submission to *J. Clin. Trials*).

July, 2006