

# Curriculum Vitae

Nancy Margaret Reid

April 24, 2009

## BIOGRAPHICAL INFORMATION

### Personal

Citizenship: Canadian  
University Address: Department of Statistics  
University of Toronto  
Room 6019, 100 St. George Street  
Toronto, Ontario M5S 3G3  
Telephone: (416) 978-5046

### Degrees

1974 B.Math University of Waterloo  
1976 M.Sc. University of British Columbia  
1979 Ph.D. Stanford University  
Thesis: "Influence functions for censored data"  
Supervisor: R.G. Miller, Jr.

### Employment

2007-	Canada Research Chair	Statistics	University of Toronto
2003-	University Professor	Statistics	University of Toronto
1988-	Professor	Statistics	University of Toronto
2002-2003	Visiting Professor	Mathematics	EPF, Lausanne
1997-2002	Chair	Statistics	University of Toronto
1987-	Tenured	Statistics	University of Toronto
1986-88	Associate Professor	Statistics	University of Toronto
		Appointed to School of Graduate Studies	
1986/01-06	Visiting Associate Professor	Mathematics	Univ. of Texas at Austin
1985/07-12	Visiting Associate Professor	Biostatistics	Harvard School of Public Health
1985-86	Associate Professor	Statistics	Univ. of British Columbia
	Tenured	Statistics	Univ. of British Columbia
1980-85	Assistant Professor	Statistics & Mathematics	Univ. of British Columbia
1979-80	Nato Postdoctoral Fellow	Mathematics	Imperial College, London

## Honours

- 2009 Gold Medal, Statistical Society of Canada
- 2009 Kuwait Lecture, University of Cambridge
- 2009 Ralph Bradley Lecturer, University of Georgia
- 2008 Emanuel and Carol Parzen Prize for Statistical Innovation
- 2007 Craig Lectures: University of Iowa
- 2007 Invited Lecture: 10th Anniversary Lecturer Series, Pacific Institute for Mathematical Sciences
- 2003 Distinguished Alumni Achievement Award, University of Waterloo
- 2003 Elected Fellow, Fields Institute for Research in the Mathematical Sciences
- 2002 Elected Fellow, American Association for the Advancement of Science
- 2001 Elected Fellow, Royal Society of Canada
- 2000 Wald Lecturer, Institute of Mathematical Statistics
- 1999 Kreeger-Wolf Lecturer, Northwestern University
- 1998 Hotelling Lecturer, University of North Carolina
- 1998 Forum Lecturer, European Meeting of Statisticians
- 1998 Regents' Lecturer, UC Davis
- 1995 First recipient of the Canadian Mathematics Society's Krieger-Nelson Prize Lectureship
- 1992 Recipient of the President's Award of the Committee of Presidents of Statistical Societies
- 1991 Elected Member of the International Statistical Institute
- 1989 Elected Fellow of the I.M.S.
- 1989 Elected Fellow of the A.S.A.

## Professional Affiliations and Activities

- Session Organizer: Session on Composite Likelihood, IMS Annual Meeting, 2010, Gothenburg
- Associate Editor: Statistical Science, 2008 –
- Associate Editor: Metrika, 2008 –
- Chair: External Review Committee, Department of Statistics, UBC, January 2008
- Associate Editor: Bernoulli, 2007 –
- Member: Scientific Program Committee, ICIAM 2011, 2007–
- Chair: NSERC Liaison Committee for Statistical Sciences, 2007–09
- Member: Program Committee, Warwick Workshop on Composite Likelihood Methods, 2007–2008
- Chair: Nomination Committee: Fields Institute Distinguished Lecture Series on Statistics, 2008–
- Chair: Awards Committee, Statistical Society of Canada, 2006–2007
- Member: External Review Committee, Computational and Mathematical Sciences, UTSC, April 2007
- Chair: Organizing Committee, BIRS Workshop on Statistics and Physics, Banff July 2006
- Member: Scientific Advisory Board, Gene-Environment Interactions in Type 1 Diabetes, PI Dr. J. Danska, 2006 –
- Past-President: Statistical Society of Canada, 2005–2006
- Member: Review Committee, Department of Statistics, UC Berkeley, April 2006
- Member: NSERC Liaison Committee for Mathematical Sciences, 2005–2006
- Member: NSF Grant Review Panel, December 2005
- President: Statistical Society of Canada, 2004–2005
- Member: PIMS Scientific Review Panel 2005–2009
- Panellist: NSF Review Panel for SAMSI, 2005
- Member: External review committee, Department of Statistics, U Western Ontario, December, 2003
- Associate Editor: J. Royal Statistical Society, Series B, July 2003 –2007
- President Elect: Statistical Society of Canada, 2003–2004
- Session organizer: Annual Meeting of the Statistical Society of Canada, June 2003
- Member: Committee on women in scholarship, Royal Society of Canada, Jan 2003–2006

Member: Committee to select DLSS, Fields Institute, Jan 2003– (Chair 2006-9)

Member: Scientific committee, National Program on Complex Data Structures, April 2002 –

Member: External review committee, Carnegie-Mellon University, February 2002

Member: Reallocations committee for GSC 14 (Statistics)

Chair of Subcommittee on National Program for Statistics

Member: Search committee for Editor of *J. Amer. Statist. Assoc.* October 2001.

Member: Harry Carver Award Committee

Institute of Mathematical Statistics. 2001-2003.

Member: Awards committee, Statistical Society of Canada. 2001-04.

Member: Scientific Board, Banff International Research Station. December 2001 –06

Member: Screening Panel, National Science Foundation, December 2001

Member: External Review Committee, Northwestern University, May 2001

Member: Review Committee, Health Effects Institute, 2001 –

Member: External Review Committee, Rutgers University, April 2000

Member: Research Advisory Board, Fields Institute for Research  
in Mathematical Sciences, 1999 –2003

Member: Research Management Committee, National Centre of Excellence in Mathematics  
of Information Technology and Complex Systems, 1999 –2004

Member: Committee on Fellows, American Statistical Association, 1999, 2000

Chair: External review committee, Department of Statistics, University of California  
at Santa Barbara, 1999

Vice President: International Statistical Institute, 1999 –2001

Associate Editor: *Annals of Statistics*, 1998 – 2003

Chair: Program Committee for Statistics Theme Year  
Centre de Recherches Mathématiques, Montreal, 1997 –98

Member: NSERC Council, 1995 –1998

President-Elect: Institute of Mathematical Statistics, 1995 –6

President: Institute of Mathematical Statistics, 1996 –7

Past-President: Institute of Mathematical Statistics, 1997 –8

Editor: *Canadian Journal of Statistics*, 1995 –97

Member: Committee to visit the Department of Statistics, Carnegie-Mellon, 1997 –1999

Session Organizer: Annual Meeting of the Statistical Society of Canada, Waterloo, May 1996

Panellist: Panel Discussion on Women in Science, RCI, Toronto, Jan 1996

Editorial Board: *Encyclopedia of Statistical Sciences* update volumes, 1995 – 1998

Program Committee: Sydney International Statistics Congress, Sidney, 1996

Program Committee: Bernoulli Society at 50th Session of the ISI, Beijing 1995

Program Committee: Third World Congress of the Bernoulli Society and the IMS, North Carolina,  
June 1994

Member: IMS Committee on Fellows 1993-96

Member: External review committee of the Department of Statistics,  
Univ. of British Columbia, Nov 1993

Member: IMS nominating committee 1992-93

Member: SSC Publications Committee 1992-94

Member: Best Paper Award Committee, *Canadian J. Statistics*, 1993, 1994, 1995, 1996

Session Organizer: IMS Special Topics meeting on “Likelihood”,  
Penn. State University, October 24-26, 1992

Associate Editor: *Statistical Science* 1992-94

Program Committee: Fifth International Meeting on Statistics & Climatology,  
Toronto, June 1992

Session Organizer: Invited Paper Session on "Inference", Annual Meeting of the Statistical Society of Canada, Toronto, June, 1991  
 Chair: Ad Hoc Committee on Double-Blind Refereeing, IMS, 1991-2  
 Member: Council of the Bernoulli Society 1991-4  
 Member: Committee to visit the Department of Statistics, Harvard University, 1991-6  
 External Appraiser: D.Sc. degree for I.M. Skovgaard, Copenhagen, May 1991  
 Associate Editor: Chapman and Hall monographs. 1991-  
 Session Organizer: Invited Paper Session on "Likelihood", 53rd Annual Meeting of the Institute of Mathematical Statistics, Uppsala, Sweden, August, 1990  
 Program Chairman: Workshop on "Likelihood inference and complex stochastic models", Niagara-on-the-Lake, June 24-29, 1990  
 Program Chairman: 208th Meeting of the Institute of Mathematical Statistics, Lexington Kentucky, March, 1989  
 Session Organizer: Invited Paper Meeting and Discussion on "Likelihood Asymptotics", 47th Session of the International Statistical Institute, Paris, August, 1989  
 Member: IMS Council 1990-92  
 Member: IMS Committee on Elections 1988-1989  
 Member: IMS Committee on Special Invited Papers 1989-1991  
 Organizer: Workshop on theoretical statistics in practice, U. of Toronto, 1987  
 Associate Editor: Biometrika 1983-1993  
 Regional member: Board of Directors, Statistical Society of Canada 1984-1988  
 Organizer: Annual meeting of the S.S.C., Vancouver; local arrangements. 1983  
 Organizer: Annual meeting of the S.S.C., Guelph; invited paper session. 1984  
 Member: Statistical Society of Canada, Institute of Mathematical Statistics, American Statistical Association, Royal Statistical Society, Bernoulli Society.  
 Member: Pierre Robillard Committee, S.S.C. 1986-7  
 Member: Committee on Statistical Education, S.S.C. 1987  
 Regional Member: Board of Directors, S.S.C. 1984-87  
 Refereeing for: Biometrika, Biometrics, J. American Statistical Assoc., Annals of Statistics, J. Royal Statistical Society Series B, Canadian J. Statist., Communications in Statistics, J. Multivariate Analysis, Applied Statistics, J. Statistical Planning and Inference, Annals of the Institute of Statistical Mathematics, American Statistician, Ann. Applied Probab., Scand. J. Statist., J. Econometrics, Comput. Statist. and Data Anal., Rebrape, Nonparametric Statist., J. Appl. Probab., Australian J. Statist., The Statistician, J. Climate, Stat. Sinica, IMS Monograph Series, NSERC, NSF, NSA, Math Reviews

## ACADEMIC HISTORY

### Research Awards

2004-09	\$48,000 pa	NSERC	Discovery grant
2001-03	\$48,000	NSERC	Equipment grant (p.i.)
2000-04	\$40,000 pa	NSERC	Operating grant
1999-01	\$76,000	NSERC	Equipment grant (co-p.i. with Neal)
1997-00	\$29,700 pa	NSERC	Operating grant
1993-96	\$27,000 pa	NSERC	Operating grant
1991-93	\$38,300	NSERC	Equipment grant (with Tibshirani, Leblanc, Andrews, Fraser)
1990-93	\$24,460 pa	NSERC	Operating grant

1987-90	\$16,900 pa	NSERC	Operating grant
1985-86	\$10,000	SSHRC	Leave fellowship
1984-87	\$10,000 pa	NSERC	Operating grant
1981-84	\$ 4,050 pa	NSERC	Operating grant

## SCHOLARLY & PROFESSIONAL WORK

### Refereed Publications

1. Koziol, J.A. and Reid, N. (1977). On multiple comparisons among K samples subject to unequal patterns of censorship. *Communications in Statistics* **A6**, 1149-1164.
2. Koziol, J.A. and Reid, N. (1977) On the asymptotic equivalence of two ranking methods for K-sample linear rank statistics. *Annals of Statistics* **5**, 1099-1106.
3. Koziol, J.A., Reid, N. and Levitt, M.H. (1979). A simple nonparametric test for trend: an example based on a biological model of the pancreas. *Biometrische Zeitschrift* **20**, 503-509.
4. Lagakos, S.W. and Reid, N. (1981). Estimating convolutions from partially censored data. *Biometrika* **68**, 113-118.
5. Reid, N. (1981). Estimating the median survival time. *Biometrika* **68**, 601-608.
6. Reid, N. (1981). Influence functions for censored data. *Annals of Statistics* **9**, 78-93.
7. Reid, N. (1983). Influence functions. Encyclopedia of Statistical Sciences. N.L. Johnson and S. Kotz, eds., 117-119.
8. Begun, J.M. and Reid, N. (1983). Estimating the relative risk with censored data. *J. Amer. Statist. Assoc.* **78**, 337-341.
9. Joe, H. and Reid, N. (1985). Estimating the number of faults in a system. *J. Amer. Statist. Assoc.* **80**, 222-226.
10. Reid, N. and Crepeau, H. (1985). Influence functions for proportional hazards regression. *Biometrika* **72**, 1-10.
11. Crepeau, H., Koziol, J.A., Reid, N., and Yuh, H.Y. (1985). Analysis of incomplete multivariate data from repeated measurement experiments. *Biometrics* **41**, 505-514.
12. Reid, N. (1985). Curvature and linear rank statistics. *Canadian J. Statist.* **12**, 155-166.
13. Barndorff-Nielsen, O.E., Cox, D.R. and Reid, N. (1986). The role of differential geometry and in statistical theory.. *Inter. Stat. Inst. Rev.* **54**, 83-96.
14. Cox, D.R. and Reid, N. (1987). Parameter orthogonality and approximate conditional inference. *J.R. Statist. Soc. B* **49**, 1-39. (with discussion).
15. Cox, D.R. and Reid, N. (1987). Approximations to noncentral distributions. *Canad. J. Statist.* **15**, 105-114.
16. Reid, N. (1988) Saddlepoint methods and Statistical inference. *Statistical Science* **3**, 213-238.
17. Fraser, D.A.S. and Reid, N. (1988). On conditional inference for a real parameter: a differential approach on the sample space. *Biometrika* **75**, 251-264.
18. Fraser, D.A.S. and Reid, N. (1988). A comparison of two approaches to conditional inference. *Statistical Papers* **29**, 271-280.
19. Cruddas, A.M., Reid, N. and Cox, D.R. (1989). A time series illustration of modified profile likelihood. *Biometrika* **76**, 231-238.
20. Cox, D.R. and Reid, N. (1989). On the stability property of maximum likelihood estimators of orthogonal parameters. *Canad. J. Statist.* **17**, 229-233.

21. Fraser, D.A.S. and Reid, N. (1989). Adjustments to profile likelihood. *Biometrika* **76**, 477-488.
22. Jardine, A.K.S., Ralston, P., Reid, N. and Stafford, J. (1989). Proportional hazards analysis of diesel engine failure data. *Quality and Reliability Engineering International* **5**, 207-216.
23. Fraser D.A.S., H.-S. Lee and Reid, N. (1990). Non-normal linear regression: an example of significance levels in high dimensions. *Biometrika* **77**, 333-341.
24. Fraser D.A.S., Reid, N. and A. Wong (1991). Exponential linear models: a two-pass procedure for saddlepoint approximation. *J. Royal Statist. Soc., B* **53**, 483-492.
25. Ferguson, H. Reid, N. and Cox, D.R.(1991). Estimating equations from modified profile likelihood in *Estimating Functions*, V.P. Godambe, ed.: Oxford University Press, 279-294.
26. Cox, D.R. and Reid, N. (1992). A note on the difference between profile and modified profile likelihood. *Biometrika* **79**, 408-411.
27. Cheah, P.K., Fraser, D.A.S., Reid, N. and Tapia, A. (1992). Third order asymptotics: connenctions among test quantities. *Commun. Statist. A* **21**, 2127-2133.
28. Bell, T. and Reid, N. (1993). Statistical analysis of tropical rainfall data. *J. Applied Meteorology*, **32**, 311-322.
29. Cox, D.R. and Reid, N. (1993). A note on the calculation of adjusted profile likelihood. *J. Royal Statist. Soc., B* **55**, 467-472.
30. Fraser, D.A.S. and Reid, N. (1993). Third order asymptotic models: likelihood functions leading to accurate approximation to distribution functions. *Statist. Sinica* **3**, 67-82.
31. Raboud, J. Coates, R. Farewell, V. and Reid, N. (1993). Estimating risks of progressing to AIDS when covariates are measured with error. *J. Royal Statist. Soc., A* **156**, 393-406.
32. Cheah, P.K., Fraser, D.A.S. and Reid, N. (1993). Some alternatives to Edgeworth. *Canad. J. Statist.* **21**, 131-139.
33. Cheah, P.K., Fraser, D.A.S. and Reid, N. (1994). Multiparameter testing in exponential models: third order approximations from likelihood. *Biometrika* **81**, 259-270.
34. Zhu, Y.-L. and Reid, N. (1994). Information, ancillarity and efficiency in the presence of nuisance parameters. *Canad. J. Statist.* **22**, 111-124.
35. Reid, N. (1995) The roles of conditioning in inference (with discussion). *Statistical Science* **10**, 138-157.
36. Fraser, D.A.S. and Reid, N. (1995) Ancillaries and third order significance. *Utilitas Math.* **47**, 33-53.
37. Reid, N. (1996) Asymptotic Expansions. *Encyclopedia for Statist. Sciences, Update Volume*, eds. S. Kotz, C.B. Read, D.L. Banks. New York, Wiley. pp. 32-39.
38. Reid, N. (1996) Cornfield's Lemma. *Encyclopedia for Statist. Sciences, Update Volume*, eds. S. Kotz, C.B. Read, D.L. Banks. New York, Wiley. pp. 163-164.
39. Reid, N. (1996) Likelihood and Bayesian approximation methods. *Bayesian Statistics V*, eds. J.O. Berger, J.M. Bernardo, A.P. Dawid, A.F.M. Smith, Oxford University Press 351-368.
40. Reid, N. (1996) Higher order asymptotics and likelihood: a review and annotated bibliography. *Canad. J. Statist.* **24**, 141-166.
41. Viraswami, K. and Reid, N. (1996) Higher order asymptotics under model misspecification. *Canad. J. Statist.* **24**, 263-278.
42. Zhu, Y.-L. and Reid, N. (1996) Efficient likelihood ratio tests under P-ancillarity and P-sufficiency. *Statist. Probab. Letters* **29** 213-221.
43. Mukerjee, R., and Reid, N. (2001) Comparison of test statistics via expected lengths of associated confidence intervals. *J. Statist. Plan. Infer.*, **97** 141-151.

44. Fraser, D.A.S., Reid, N. and Wu, J. (1997) Estimating functions and higher order significance. in *Proceedings of a Symposium on Estimating Functions* eds. I Basawa and V. Godambe. Institute of Mathematical Statistics, Hayward. pp. 105–114.
45. Seifu, Y. and Reid, N. (1997) Applications of univariate and bivariate local Lyapunov exponents. *Canad. J. Statist.* **25**, 559–579.
46. Fraser, D.A.S., Reid, N. and Wong, A. (1997) Simple and accurate inference for the mean of the gamma model. *Canad. J. Statist.* **25**, 91–99.
47. Reid, N. (1998) Ancillary statistics. *Encyclopedia of Biostatistics*.
48. Reid, N. (1998) Influence functions in survival analysis. *Encyclopedia of Biostatistics*.
49. Reid, N. (1997) Asymptotic theory and the foundations of statistics. *Canad. Math. Bull.* **40** 231–243.
50. Viraswami, K. and Reid, N. (1998) A note on the Likelihood Ratio Statistic under Model Misspecification. *Canad. J. Statist.* **26**, 161–168.
51. Mukerjee, R. and Reid, N. (1999) On a property of probability matching priors: matching the alternative coverage probabilities. *Biometrika*, **86**, 333–340.
52. Fraser, D.A.S. and Reid, N. (2001) Ancillary information for statistical inference. in *Empirical Bayes and Likelihood Inference*, eds. E. Ahmed and N. Reid. Springer-Verlag, New York. 185–210.
53. Fraser, D.A.S., Reid, N. and Wu, Y. (1999) A simple general formula for tail probabilities for frequentist and Bayesian inference. *Biometrika* **86**, 249–264.
54. Mukerjee, R. and Reid, N. (1999) On confidence intervals associated with the usual and adjusted likelihoods. *J. R. Statist. Soc. B* **61**, 945–954.
55. Reid, N. and Fraser, D.A.S. (2000). Higher order asymptotics: costs and benefits. in *Statistics for the 21st century*, C.R. Rao and G.J. Szekely, eds., 351–365. Marcel Dekker: New York.
56. Fraser, D.A.S. and Reid, N. (2002) Strong matching of frequentist and Bayesian parametric inference. *J. Statist. Plann. Infer.* **103**, 263–285.
57. Reid, N. (2000) Likelihood. *J. Amer. Statist. Assoc.*, **95**, 1335–1340.
58. Reid, N. (2001) Statistical sufficiency. *Intern. Encycl. Beh. and Soc. Sci.*, N.J. Smelser and P.B. Baltes, eds. **22**, 15044–49.
59. Reid, N. (2001) Significance, tests of. *Intern. Encycl. Beh. and Soc. Sci.*, N.J. Smelser and P.B. Baltes, eds. **21**, 14085–91.
60. Mukerjee, R. and Reid, N. (2001) On the Bayesian approach for frequentist computations. *Braz. J. Statist.*, **14** 159–166.
61. Mukerjee, R. and Reid, N. (2001) Second-order probability matching priors for a parametric function application to Bayesian tolerance limits. *Biometrika*, **88** 587–592.
62. Reid, N., Mukerjee, R. and Fraser, D.A.S. (2003) Some aspects of matching priors. *Mathematical Statistics and Applications: Festschrift for C. VanEeden* (M. Moore, S. Froda, C. Léger, eds.) 31–44. Lecture notes Monograph Series 42, Institute of Mathematical Statistics, Hayward.
63. Reid, N. (2003) Asymptotics and the theory of inference. *Ann. Statist.* **31**, 1695–1731.
64. Fraser, D.A.S., Reid, N., Li, R., and Wong, A. (2003).  $p$ -value formulas from likelihood asymptotics: Bridging the singularities. *J. Statist. Research.* **37**, 1–15.
65. Fraser, D.A.S., Reid, N. and Yun-Yi, G. (2003). Direct Bayes for interest parameters. in *Bayesian Statistics 7*, J. M. Bernardo, M. J. Bayarri, J. O. Berger, A. P. Dawid, D. Heckerman, A. F. M. Smith and M. West (eds) 529–534. Oxford University Press, Oxford.
66. Reid, N. and Fraser, D.A.S. (2003). Likelihood inference in the presence of nuisance parameters. in *Proceedings of PHYSTAT2003*, L. Lyons, R. Mount, R. Reitmeyer, eds. SLAC e-Conf C030908, 265–271.
67. Warner, G.C., Reis, P.P., Jurisica, I., Sultan, M., Arora, S., Macmillan, C., Makitie, A.A., Grenman, R., Reid, N., Sukhai, M., Freeman, J., Gullane, P., Irish, J., Kamel-Reid, S. (2004). Molecular classification of oral cancer by cDNA microarrays identifies over-expressed genes correlated with nodal metastasis. *Int. J. Cancer* **110** 857–868.

68. Cox, D.R. and Reid, N. (2004). A note on pseudo-likelihood constructed from marginal densities. *Biometrika*, **91**, 729–737.
69. Fraser, D.A.S., Reid, N. and Wong, A.C.M. (2004). Inference for bounded parameters. *Phys. Rev. D* **69**, 033002.
70. Reid, N. (2005). Asymptotics and the theory of statistics. in *Celebrating Statistics: Papers in Honour of D.R. Cox*, eds. A.C. Davison, Y.Dodge, N.Wermuth. Oxford University Press, Oxford, 73–88.
71. Fraser, D.A.S. and Reid, N. (2006) Assessing a vector parameter. *Student* **5**, 247–256.
72. Davison, A.C., Fraser, D.A.S. and Reid, N. (2006). Likelihood inference for categorical data. *JRSS B* **68**, 495–508.
73. Reid, N. (2006). Summary of statistical issues arising in PhyStat2005. in *Statistical Problems in Particle Physics, Astrophysics and Cosmology: Proceedings of PHYSTAT2005*, L. Lyons and M. Ünel, eds. World Scientific, London. 279–282
74. Reid, N. (2008). Some aspects of design of experiments. in *Proceedings of PHYSTAT Workshop On Statistical Issues for LHC Physics*, H.B. Prosper, L. Lyons and A. DeRoeck, eds. 99-110.
76. Staicu, A.-M. and Reid, N. (2008). On probability matching priors. *Canad. J. Statist.* **36**, 613–622.
77. Reid, N. and Sun, Y. (2009). Sensitivity of priors. *Commun. Statist. A*, to appear.
78. Ghosh, M., Fraser, D.A.S., Reid, N. (2009). Ancillary statistics: a review. *Statistica Sinica*, to appear.

## Books

1. *Statistical Theory and Modelling: in honour of Sir David Cox*, D.V. Hinkley, N.Reid, and E.J. Snell, eds. Chapman and Hall, London (1990) (a collection of 12 original essays, two of which I authored or co-authored).
2. *Empirical Bayes and Likelihood Inference*. S.E. Ahmed and N. Reid, eds. Springer-Verlag (2000). Proceedings of a CRM workshop.
3. *The Theory of the Design of Experiments*. (2000). D. R. Cox and N. Reid. Chapman and Hall: London.
4. *Applied Asymptotics: Case studies in higher order asymptotics*. (2007). A.R. Brazzale, A.C. Davison and N. Reid. Cambridge University Press: Cambridge.

## Non-Refereed Publications

1. Gibbs, A. and Reid, N. (2009). Discussion of "What is Statistics" by Brown and Kass. *The American Statistician*, to appear.
2. Reid, N. (2008). Introduction to "Using specially designed exponential families for density estimation" by B. Efron and R. Tibshirani, in *The Science of Bradley Efron*, C. Morris and R. Tibshirani, eds., Springer-Verlag, New York. 302–304.
3. Cox, D.R. and Reid, N. (2008). The wish-list: some comments. in *Proceedings of PHYSTAT Workshop On Statistical Issues for LHC Physics*, H.B. Prosper, L. Lyons and A. DeRoeck, eds. 120-124.
4. Reid, N. (2006). Discussion of "Treatment of nuisance parameters in high energy physics" by R.D. Cousins, in *Statistical Problems in Particle Physics, Astrophysics and Cosmology: Proceedings of PHYSTAT2005*, L. Lyons and M. Ünel, eds. World Scientific, London. 86–87.
5. Reid, N. (2005). Contribution to the discussion of Model choice in time series studies of air pollution and mortality by R. D. Peng, F. Dominici and T. A. Louis, *J. R. Statist. Soc. A* **16**, p.200
6. Reid, N. (2006). Orthogonal parameters. *Encyclopedia of Statistical Sciences*, DOI: 10.1002/04711667196.ess6059.
7. Reid, N. (2003). Contribution to the discussion of Berger (2003): "Could Neyman, Fisher and Jeffreys have agreed on testing?". *Statist. Sci.* **18**, 27.
8. Fraser, D.A.S. and Reid, N. (2002). Contribution to the discussion of McCullagh (2002) "What is a statistical model?" *Ann. Statist.*, **30**, 1283–1286.

9. Contribution to the discussion of Chen, Lockhart and Stephens (2002) “Asymptotic theory for the transformation model.” *Canad. J. Statist.*, **30**, 211–212.
10. Review of *Saddlepoint approximations* by Jens Ledet Jensen. (1996) *SIAM Review* **38** 696–697.
11. Contribution to the discussion of “The relation between theory and application in Statistics” by D.R. Cox. (1995) *TEST*, **4** 251–252.
12. Contribution to the discussion of “Empirical Bayes methods of combining likelihoods” by B. Efron, (1996) *J. Amer. Statist. Assoc.*, **91** 559.
13. A Conversation with Sir David Cox. *Statistical Science* **9**, 439-55. (1994)
14. Report of the Ad Hoc Committee on Double-Blind Refereeing (with D. R. Cox, L. J. Gleser, M. Perlman and K. Roeder). *Statistical Science* **8**, 310-330, (1993).
15. Introduction to “Structural Probability” by D.A.S. Fraser, for *Breakthroughs in Statistics*, N.L. Johnson and S. Kotz, eds., 109-113, New York, 1992.
16. Approximations and asymptotics. Ch. 12 in *Statistical Theory and Modelling*, Hinkley, Reid and Snell, eds. London, 1990.
17. Theoretical statistics. (with D.V. Hinkley) Ch.1 in *Statistical Theory and Modelling*, Hinkley, Reid and Snell, eds. London, 1990.
18. Report on Female Faculty Salary Survey, University of Toronto, November 1990 (consulting for the provostial committee on pay equity).
19. Contribution to discussion of: An ancillarity paradox in multiple regression by L.D. Brown, (1990). *Ann. Statist.* **18**, 503-507. (with D. Fraser)
20. Contribution to discussion of: The geometry of asymptotic inference by R. Kass. (1989) *Statist. Science* **4**, 231-233. (with D. Fraser)
21. Review of: Parametric statistical models and likelihood by O.E. Barndorff-Nielsen (1988) for *J.A.S.A.* **84**, 221, (1990).
22. Review of: The statistical analysis of failure time data by J.D. Kalbfleisch and R.L. Prentice (1980) for *Canad. J. Statist.* **10**, 64-66.
23. Contribution to discussion of: Nonparametric standard errors and confidence intervals by B. Efron (1981) *Canad. J. of Statist.* **9**, 167.
24. Contribution to discussion of: Relative curvature methods for nonlinearity by D.M. Bates and D.G. Watts (1980). *J. Royal Statist. Soc. Ser. B* **42**, 20.

### **In Preparation**

1. Reid, N. and Fraser, D.A.S. (2008). Expected likelihood and higher order asymptotics. under revision for *Biometrika*.
2. Fraser, D.A.S., Marras, E., Reid, N. and Yun-Yi, G. (2007). Default priors for Bayesian and frequentist inference. under revision for *JRSS B*.
3. Reid, N. (2009). Likelihood. invited for *Journal of Computational Statistics*.

### **Submitted for Publication**

1. Yun-Yi, G. and Reid, N. (2008). A note on misspecified estimating equations. submitted to *Statistica Sinica*.

### **Papers Presented at Meetings and Symposia**

1. Reid, N. (1996). Estimating functions and higher order significance. Presented to a Symposium on Estimating Functions, Athens, Georgia, March 1996.

2. Reid, N. (1994). Likelihood and Bayesian approximation methods. Presented to the Fifth Valencia International Meeting on Bayesian Statistics, Alicante, Spain, June 3-10, 1994.
3. Reid, N. (1993). Making higher order asymptotics useful. In the Proceedings of the Conference on Statistical Inference and Biostatistics, CIMAT, Guanajuato, Mexico. March 22-26, 1993.
4. Reid, N. (1992). Aspects of modified profile likelihood. In Proceedings of the International Symposium on Nonparametric Statistics and Related Topics. A.K. Saleh, ed. pp. 423-442.
5. Reid, N. (1992). Accurate approximation of tail areas using the likelihood function. In the Proceedings of the Fourth Latin American Congress in Probability and Statistics. E. Cabana et al. eds., pp. 36-50.
6. Reid, N. (1989). The role of conditioning in inference. Special Invited Paper, I.M.S., Davis, Calif., June 1989.
7. Reid, N. (1989). Asymptotic techniques and applications. Invited Paper, A.S.A., Washington, D.C. August, 1989.
8. Fraser, D.A.S., McDunnough, P. and Reid, N. (1989). Some aspects of conditional inference. In Recent Developments in Statistics and Actuarial Science: Festschrift for M.M. Ali. p. 1-15. M.S. Haq and S.B. Provost, eds.
9. Fraser, D.A.S. and Reid, N. (1988). Fibre analysis and conditional inference. Proceedings of the 2nd Pacific Area Statistical Conference (refereed), 241-248, K. Matusita, ed.
10. Reid, N. (1986). Saddlepoint approximations in statistics. Invited address, R.S.S. Open Forum on Asymptotic Statistical Inference. Edinburgh, July 1986.
11. Reid, N. (1986). Conditional inference for censored data. Invited address, Eastern regional meeting of the I.M.S., Atlanta, March, 1986.

#### **Invited Participant**

1. NATO Research Workshop in Differential Geometry in Statistics, London, April 1984.
2. NSERC Research workshop in Asymptotic Methods in Statistical Inference, Edinburgh, June 1986.
3. Workshop on Fisherian and Bayesian inference, Brixen, June 1995.
4. Workshop on non-subjective priors, Purdue University, November, 1996.
5. Workshop on objective Bayesian methodology, Valencia, Spain, June, 1999. Invited discussant.
6. Workshop on Statistics: Challenges and Opportunities for the 21st century. National Science Foundation, May, 2002. Invited participant.
7. Workshop on National Program on Complex Data Structures. Member of planning group for next phase of funding. Banff International Research Station, April 9-13, 2007
8. Workshop on longitudinal data analysis, Gothenburg, July 2008

#### **Invited Lectures: Conferences**

- Invited Speaker, Session on "Composite likelihood" Joint Statistical Meetings, Washington DC, August 2009.
- Invited Speaker, Session on "Likelihood", Annual Meeting of the Statistical Society of Canada, May 2008.
- Invited Speaker, Workshop on Analysis of Longitudinal Data, Gothenburg, Sweden, August 2008.
- Invited Speaker, Workshop on Composite Likelihood Inference, Warwick, April 2008.
- Invited Speaker, 44th Gregynog Statistical Conference, Gregynog, April 2008.
- Plenary Speaker, First Canadian-Mexican joint statistics conference, Guanajuato, Mexico, February 2008.

Panel Discussant, Session on “New policies to facilitate the tenure process for women in sciences” . Joint Statistical Meetings, Salt Lake City, August 2007.

Invited Speaker, University of Waterloo Department of Statistics 40th Anniversary Conference. Waterloo, May 2007.

Invited Speaker, Canadian Association of Specialised Library and Information Services, February 2007.

Invited Speaker, Workshop on Statistics in Physics, Banff International Research Station, July 2006.

Invited Speaker, Workshop on Frontiers of Statistics: in honour of Peter Bickel, Princeton University, May 2006.

Invited Speaker, Southern Ontario Graduate Students Statistics days, May 2006.

Invited Speaker, Workshop on Statistics and Physics, SAMSI, March 2006.

Invited Speaker, Conference in honour of O.E. Barndorff-Nielsen. Guanajuato, MX, March 2006

Invited Speaker, Winter Workshop on Frontiers in Statistics, University of Florida, January 2006

Invited Discussant, PHYSTAT 2005. University of Oxford, September 2005

Invited Speaker, Statistical Society of Montreal. Montreal, Quebec, November 2004

Invited Discussant, Session in honour of D. Basu, JSM Toronto, Ontario, August 2004

Invited Speaker, Symposium in Honour of David Cox. Neuchatel, Switzerland, July 2004

Keynote Speaker, MITACS Annual Meeting. Halifax, NS, May 2004

Invited Speaker. Workshop on Non-informative priors. Grenada, Spain, December 2002

Panel Discussant. Session on teaching statistical inference. Annual meeting of the American Statistical Association. San Francisco, August 2003.

Invited Speaker. Statistical Society of Canada. Burnaby, BC, June, 2001.

Invited Speaker. Symposium in Honour of Sir David Cox. New York, March, 2001.

Workshop on inference and asymptotics. Ascona, Switzerland, July, 2000.

Wald lecturer. 5th World Congress of the Bernoulli Society and 63rd annual meeting of the Institute of Mathematical Statistics. Guanajuato, Mexico, May, 2000.

Symposium in honor of C.R. Rao, University of Texas at San Antonio, March, 2000.

Statistics for the 21st Century, Bowling Green State University, April, 1998.

Women in Mathematics, University of Waterloo, May, 1998.

Sixth Purdue Symposium on Decision Theory and Related Topics, Purdue, June 1998.

Forum Lectures, 22nd European Meeting of Statisticians, Vilnius, Lithuania, August, 1998.

CRM Banff Summer School on Likelihood Asymptotics, Banff, Alberta, August, 1997.

Symposium on Estimating Functions, Athens, Georgia, March 1996.

Summer Meeting of the Canadian Mathematical Society, Toronto, June, 1995.

First Krieger-Nelson prize lecture: “Statistics in the 21st century: asymptotic theory and the foundations of statistics”.

Annual Meeting of the American Statistical Association, Toronto, August 1994.

Invited discussant: “Advances in the use of statistics in equal opportunity cases”.

Fifth Valencia International Meeting on Bayesian Statistics, Alicante, Spain, June 3-10, 1994. Invited speaker.

Session on “likelihood” at 40th session of ISI, Florence, August 1993. Invited discussant.

CIMAT workshop on Statistical Inference and Biostatistics, Guanajuato, Mexico, April, 1993.

Institute of Mathematical Statistics, Annual Meeting, Boston, August 1992. Invited Paper.

International Symposium on Nonparametric Statistics and Related Topics, Ottawa, May 1991.

4th Latin American Congress in Statistics and Probability, Mexico City, September 1990.

209th Meeting of the Institute of Mathematical Statistics, June 1989. Special Invited Lecturer.

American Statistical Association, Annual Meeting, Washington, D.C. August 1989, Invited Paper.

Latin American School in Linear Models, Sao Paulo, Brazil, January 1989.  
American Statistical Association, Annual Meeting, San Francisco, August 1987.  
Invited discussant: Statistical problems in climatology.  
Statistical Society of Canada, Annual Meeting, Banff Alberta, May 1986.  
Statistical Society of Canada, Annual Meeting, Quebec City, June 1987.  
Institute of Mathematical Statistics, Eastern Regional Meeting, Atlanta Georgia, March 1986.  
Annual meeting of the ASA, Detroit, August 1981.  
Annual meeting of the SSC, Halifax, May 1981.  
International conference in non-parametric statistics, Budapest, June 1980.  
IMS regional meeting, Los Angeles, June 1979.

### **Invited Lectures: Universities**

Department of Statistics, University of Georgia, April 2009  
Department of Statistics, Columbia University, November 2008  
Department of Statistics and Applied Maths, UC Santa Cruz, October 2008  
Department of Statistics, University of Iowa, October 2007  
Institute for Clinical and Evaluative Sciences, Sunnybrook Health Sciences Centre, May 2006  
University of Windsor, March 2006  
York University, February 2006  
University of Michigan, November 2005  
ADVANCE Distinguished Lecturer, Case Western Reserve University, September 2004  
University of Padua, November 2004  
University of Wisconsin, April 2004  
McMaster University, November 2003  
EPFL Lausanne, May 2003  
University of Geneva, April 2003  
ETH Zurich, April 2003  
University of Oxford, February 2003  
University of Bern, November 2002  
Florida State University, September 2000  
York University, January 2000  
University of Florida, April 1999  
University Regents Lecturer, UC Davis, April 1998  
Hotelling Lecturer, U of North Carolina, October 1998  
York University, January 1998  
Stanford University, January 1998  
Iowa State University, November 1995  
University of Guelph, March 1995  
University of Waterloo, May 1994  
Virginia Tech, March 1994  
University of Rochester, February 1994  
University of California at Santa Barbara, April 1993  
University of South Florida, April 1993  
York University, September 1992  
Texas A & M University, April 1992  
Brown University, May 1991

University of British Columbia, October 1990  
 Cornell University, April 1990  
 Carnegie-Mellon University, April 1990  
 University of Montreal, March 1990  
 Johns Hopkins University, February 1990  
 University of Waterloo, January 1990  
 University of Michigan, November 1989  
 ATT Bell Labs, October 1989  
 University of Chicago, November 1988  
 Dalhousie University, March 1988  
 Queen's University, November 1987  
 McGill University, January 1987  
 University of Western Ontario, December 1987  
 Texas A & M University, April 1986  
 Harvard University, October 1985  
 University of Waterloo, May 1985  
 University of Toronto, January 1985  
 Penn. State University, November 1985  
 University of Texas, January 1986  
 Carnegie - Mellon University, February 1982  
 University of Washington, May 1981

## ADMINISTRATIVE POSITIONS

### Within University

- 2008-09 School of Graduate Studies Dean's Representative on four tenure committees. Dean's Committee on University Professor nominations, Faculty of Arts and Science. Faculty of Arts and Science committee on 199/299/399 program. Department committees on promotions, hiring.
- 2007-08 School of Graduate Studies Dean's Representative on six tenure committees. Departmental committees on promotions, publicity. Departmental tenure committee for F.Yao.
- 2006-07 School of Graduate Studies Dean's Representative on six tenure committees. Departmental committees on promotions, web design, computing. Seminar coordinator. Chair search committee.
- 2005-06 University Professor Selection Committee.
- 2004-05 Departmental committees on hiring, promotions, graduate affairs. Seminar coordinator. University Professor Selection Committee.
- 2003-04 Departmental committees on hiring, promotions, undergraduate curriculum, consulting. University Professor Selection committee.
- 2002-03 Administrative leave.
- 2001-02 Chair of Department of Statistics. Senior Salary Committee, Faculty of Arts and Science. Graduate Enrollment Planning Committee, Faculty of Arts and Science. Hiring committee, Department of Physics (Dean's Rep.). Tenure committee, Department of Mathematics.
- 2000-01 Chair of Department of Statistics. Senior Salary Committee, Faculty of Arts and Science. Budget Committee, Faculty of Arts and Science. Graduate Advisory Committee, Faculty of Arts and Science. Academic Board. Planning and Budget Committee, Academic Board. Hiring committee, Department of Physics (Dean's Rep.). Hiring committee, Department of Public Health Sciences (member).
- 1999-00 Chair of Department of Statistics. Chair of CQUEST management board (to Dec 99). Academic Board. Planning and Budget Committee, Academic Board. Budget Committee, Faculty of Arts and Science. Senior Salary Committee, Faculty of Arts and Science.

- 1998-99 Chair of Department of Statistics. Chair of CQUEST management board. Research Advisory Board, Physical Sciences. Academic Board. Planning and Budget Committee, Academic Board. Budget Committee, Faculty of Arts and Science. Graduate Education Committee, Faculty of Arts and Science. Dean's Excellence Award Committee.
- 1997-98 Chair of Department of Statistics. Chair of CQUEST management board. Research Advisory Board, Physical Sciences. Dean's Excellence Award Committee.
- 1996-97 Provostial assessor: Faculty of Medicine promotions committee. Member of Research Advisory Board: Physical Sciences. Member of departmental committees on hiring, promotion, development.
- 1995-96 Provostial assessor: Faculty of Medicine promotions committee. Member of Research Advisory Board: Physical Sciences. Member of Faculty of Arts and Science Committee on Women in Science. Member of departmental committees on hiring, promotion, development, seminar.
- 1994-95 Member of Faculty of Arts and Science Committee on Women in Science. Member of departmental committees on hiring, promotion; director of Statistical Consulting Service.
- 1993-94 Provostial review committee of mathematical sciences.
- 1992-93 Member of departmental committees on hiring, promotion; graduate coordinator; Faculty of Graduate Studies degree committee and executive committee; Dean's representative on Physics (theoretical particle) search committee.
- 1991-92 Member of departmental committees on undergraduate curriculum, graduate students (spring 92), hiring (spring 92).
- 1989-91 Member of departmental committees on undergraduate curriculum, hiring, colloquium (91/92): Dean's Search Committee for Chair of Mathematics (spring 91).
- 1986-89 Member of departmental committees on graduate students, hiring, and colloquia.
- 1986-88 Dean's assessor on the Department of Mathematics Hiring Committee.
- 1988- Dean's Assessor on the Department of Physics Hiring Committee.
- 1988-89 Elected member, Academic Board. Appointed member, Committee on Academic Policy and Programs.
- 1989-91 Department committees on hiring, promotion, and implementation (chair).
- 1991 Faculty of Science Curriculum Committee. Dean's Search Committee for Chair of Mathematics.

(a) University of British Columbia

- 1983-85 Graduate student advisor (admissions, TA applications, course advising). Department of Statistics.
- 1982-85 U.B.C. Statistical Consulting Service.

## TEACHING

### Theses Supervised

- H. Crepeau, (ten months).  
Analysis of growth curve models. M.Sc., 1983.
- P. Kottegoda, (ten months).  
Survival following peripheral bypass surgery. M.Sc., 1985.
- L. Dunn, (eighteen months).  
Modelling survival rates in bilateral breast cancer. M.Sc., 1986. University of Toronto
- H. Ishwaran, NSERC summer Research Program, May-September 1987.
- H. Ferguson, Ph.D., September 1987 - September 1989.

J. Stafford, NSERC summer research assistant, May-September 1988.

Y.-L. Zhu, Ph.D., September 1988 - January 1992.  
Information loss, p-sufficiency and p-ancillary.

Janet Raboud, Ph.D., September 1989 - July 1991.  
Errors in covariates with special application to AIDS data.

Alberto Tapia-Aguilar, Ph.D., May 1990 - July 1994.  
Accurate confidence intervals in the proportional hazards model.

Angelo Canty, Ph.D., August 1992 - April 1995.  
A system to test for convergence of the Gibbs Sampler.

Kalyanee Viraswami, Ph.D., August 1992 - December 1994.  
Higher order asymptotics and robustness.

Yodit Seifu, Ph.D., August 1992 - May 1995.  
Local Lyapunov exponents: results and applications.

Jiahui Li, Ph.D., June 1994 - January, 1998.  
Aspects of likelihood and Bayesian asymptotics.

Ann Kwon, Ph.D., June 1995 - 1999. (lapsed)  
Applications of modified profile likelihood.

Peter Kupchak, Ph.D., June 1997 - May 2000.  
Optimal design for dose-response curves.

Zengxin Hong, Ph.D., September 2001 - 2007. (lapsed)  
Higher order asymptotics for semiparametric models.

Sigfrido Iglesias-Gonzalez, Ph.D. September 2003-February 2007.  
Highly accurate tests for the mixed linear model.

Zheng Zheng, Ph.D. September 2003- 2007. (lapsed)  
Asymptotics and bootstrap methods for survey sampling.

Ana-Maria Staicu, Ph.D. September 2003- June 2007.  
On some aspects of likelihood methods with applications in biostatistics.

Zi Jin, Ph.D. September 2005- ongoing  
Aspects of composite likelihood inference.

Lequn Zeng.  
Asymptotic theory for composite likelihood.

## Undergraduate Courses

### *University of British Columbia*

1980-81	Math 105	Descriptive and elementary statistical inference
	Math 305	Statistical inference 1
	Math 306	Statistical inference 2
1981-82	Math 203	Statistical methods I
	Math 405	Design of experiments (3 units)
1982-83	Math 205	Introduction to probability
	Math 306	Statistical inference 2
1983-84	Math 203	
	Math 305	
1984-85	Stat 203	
	Stat 204	Statistical methods II

*University of Toronto*

1986-87	STA 352Y STA 442S	Intro. to prob. and math. stat. Applied statistics
1987-88	STA 442S	
1988-89	STA 457F	Time series
1989-90	STA 402S STA 287S	Design of experiments Prob. and Stat. (Eng. Science)
1990-91	STA 402S STA 422F	Theory of inference
1991-92	STA402S	
1992-93	STA302F STA422F STA450S	Regression Object-oriented programming and statistical graphics
1993-94	sabbatical leave	
1994-95	maternity leave	
1995-96	SCI 199Y	Freshman seminar: "Lies, damned lies and statistics"
1996-97	SCI 199Y	Freshman seminar: "Lies, damned lies and statistics"
1997-02	chair of department	
2002-03	administrative leave	
2003-04	STA 450H	Topics in statistics: machine learning and data mining
2004-05	STA 410H STA 450H	Computational statistics Topics in statistics: machine learning and data mining
2005-06	sabbatical leave	
2006-07	SCI 199Y	Freshman seminar: "Lies, damned lies and statistics"
2007-08	SCI 199Y STA 442H	Freshman seminar: "Lies, damned lies and statistics" Methods of Applied Statistics
2008-09	SCI 199Y STA 414F	Freshman seminar: "Lies, damned lies and statistics" Data Mining and Machine Learning

**Graduate Courses**

1980-81	Math 537B	Analysis of survival data
1982-83	Math 546	Nonparametric methods
1983-84	Math 406/519	Theory of Statistics
1984-85	Stat 546	Nonparametric methods
1985-86	Math 394C	Applied Statistics (University of Texas)
1986-87	STA 4412F STA 2211/352Y STA 442S	Asymptotic methods (with Tom DiCiccio) Intro. to probability and mathematical statistics Applied statistics
1987-88	STA 3000Y STA 4372F	Theoretical Statistics Aspects of conditional inference (with D. Fraser)
1988-89	STA 3000Y STA 4412S	(shared with two other instructors)

	STA 1102/457F	
1989-90	STA 1201F STA 1004/402S	Applied Statistics II
1990-91	STA 2162/422F STA 1004/402S STA 3000Y	(shared with two other instructors)
1991-92	STA 1004/402S STA 1201S	
1992-93	STA 1001/302F STA 2162/422F STA 2102/450S	
1993-94	sabbatical leave	
1994-95	maternity leave; consulting service	
1995-96	STA3103S	Likelihood and Bayesian asymptotics
1996-97	STA2004S	Design of experiments
1998-99	STA2004S	
1999-00	STA3000F	Theoretical statistics
2000-01	STA2004F	
2001-02	STA3000F STA4001F	Selected readings of recent literature
2002-03	administrative leave	
2003-04	STA2004F STA 3000 S STA 450 S	Design of experiments Theoretical statistics Topics in Statistics (data mining)
2004-05	STA3000F STA 4000 S STA 2102 S	Theoretical Statistics Topics in Statistics (data mining) Statistical Computing
2005-06	sabbatical leave	
2006-07	STA 2004F	Design of experiments
2007-08	STA 2101F	Applied Statistics I
2008-09	STA 2104S	Data Mining and Machine Learning