

CURRICULUM VITAE

D.A.S. FRASER
Department of Statistics
University of Toronto
Toronto, Ontario
CANADA, M5S 3G3

CITIZENSHIP Canadian

DEGREES

1946	B.A.	University of Toronto
1947	M.A.	University of Toronto
1948	M.A.	Princeton University
1949	Ph.D.	Princeton University
1992	D.Math.	University of Waterloo
2002	D.Sc.	University of Toronto

EMPLOYMENT

APPOINTMENTS

1949-53	Assistant Professor	Mathematics	University of Toronto
1953-58	Associate Professor	Mathematics	University of Toronto
1958-present	Professor	Mathematics	University of Toronto
1977-83	Professor & Chairman	Statistics	University of Toronto
1983-present	Professor	Statistics	University of Toronto
1984-86	Adjunct Professor	Mathematics	York University
1986-1995	Professor	Mathematics	York University
1984-present	Adjunct Professor	Statistics	University of Waterloo

VISITING APPOINTMENTS

1955	Associate Professor	Mathematics	Princeton University
1961-62	Professor	Statistics	Stanford University
1964	Professor	Statistics	University of Copenhagen
1965	Professor	Statistics	University of Wisconsin
1969-70	Professor	Mathematics	University of Hawaii
1978-79	Professor	Mathematics	University of Geneva
1982-83	Professor	Statistics	Stanford University
2002-03	Professor	Mathematics	EPFL Lausanne

HONOURS & AWARDS

- 1946 Putnam Competition, Winning Team
- 1949 Member, Sigma Xi
- 1954 Fellow, Institute of Mathematical Statistics
- 1956 Fellow, Royal Statistical Society
- 1962 Fellow, International Statistical Institute
- 1962 Fellow, American Statistical Association
- 1967 Fellow, Royal Society of Canada
- 1971 Fellow, American Association for the Advancement of Science
- 1985 First Gold Medal, Statistical Society of Canada
- 1990 R.A. Fisher Award and Prize, American Statistical Association
Annual Meeting, August 8, Anaheim, California
- 1991 Honorary Member, Statistical Society of Canada
- 1992 Doctor of Mathematics, honoris causa, University of Waterloo, June 30
- 1999 Distinguished Statistician, American Statistical Association Videotape Archives.
- 2000 Gold Medal, Islamic Statistical Society.
- 2002 Doctor of Science, honoris causa, University of Toronto, June 24
- 2011 Officer of the Order of Canada, December 16

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Associate Editor *Journal of Multivariate Analysis*
- Associate Editor *Statistical Papers*
- Associate Editor *Utilitas Mathematica*
- Associate Editor *Theory and Decision Library*
- Editorial Board *Journal Applied Probability and Statistics*

PH.D SUPERVISION

55 Ph.D. students completed; 2 current students

PUBLICATIONS

BOOKS

- 1957 Nonparametric Methods in Statistics, New York: Wiley
- 1958 Statistics: An Introduction, New York: Wiley
- 1968 The Structure of Inference, 1968, New York: Wiley
- 1976 Probability and Statistics, Theory and Applications,
North Scituate, Massachusetts: Duxbury
- 1979 Inference and Linear Models, New York: McGraw Hill

PAPERS

1. Fraser, D.A.S. (1950). Note on the χ^2 -smooth test. *Biometrika* **37**, 447-448.
2. Fraser, D.A.S. (1951). Generalized hit probabilities with a Gaussian Target. *Annals Math. Statist.* **22**, 248-255.

3. Fraser, D.A.S., and Wormleighton, R. (1951). Nonparametric estimation IV. *Annals Math. Statist.* **22**, 294-298.
4. Fraser, D.A.S. (1951). Sequentially determined statistically equivalent blocks. *Annals Math. Statist.* **22**, 372-381.
5. Fraser, D.A.S. (1951). Normal samples with linear constraints and given variances. *Can. J. Math.* **3**, 363-366.
6. Baillie, D.C., and Fraser, D.A.S. (1951). The statistical analysis of the Rosvold and Mishkin data. *Can. J. Psych.* **5**, 82-84.
7. Fraser, D.A.S. (1952). Sufficient statistics and selection depending on the parameter. *Annals Math. Statist.* **23**, 417-425.
8. Fraser, D.A.S. (1952). Confidence bounds for a set of means. *Annals Math. Statist.* **23**, 575-585.
9. Fraser, D.A.S., and Guttman, I. (1952). Bhattacharyya bounds without regularity assumptions. *Annals Math. Statist.* **23**, 629-632.
10. Fraser, D.A.S. (1953). Nonparametric tolerance regions. *Annals Math. Statist.* **24**, 44-55.
11. Fraser, D.A.S. (1953). Generalized hit probabilities with a Gaussian target II. *Annals Math. Statist.* **24**, 288-294.
12. Fraser, D.A.S. (1953). The Behrens-Fisher problem for regression coefficients. *Annals Math. Statist.* **24**, 390-402.
13. Fraser, D.A.S. (1953). Completeness of order statistics. *Can. J. Math.* **6**, 42-45.
14. Fraser, D.A.S. (1953). Non-parametric theory: Scale and location parameters. *Can. J. Math.* **6**, 46-68.
15. Fraser, D.A.S. and Guttman, I. (1956). Tolerance regions. *Annals Math. Statist.* **27**, 162-179.
16. Fraser, D.A.S. (1956). A vector form of the Wald-Wolfowitz-Hoeffding theorem. *Annals Math. Statist.* **27**, 540-543.
17. Fraser, D.A.S. (1956). Sufficient statistics with nuisance parameters. *Annals Math. Statist.* **27**, 838-842.
18. Fraser, D.A.S. (1957). A regression analysis using the invariance method. *Annals Math. Statist.* **28**, 517-520.
19. Fraser, D.A.S. (1957). On the combining of interblock and intrablock estimates. *Annals Math. Statist.* **28**, 814-816.
20. Fraser, D.A.S. (1957). Most powerful rank-type tests. *Annals Math. Statist.* **28**, 1040-1043.
21. Chung, J.H., and Fraser, D.A.S. (1958). Randomization tests for a multivariate two-sample problem. *J. Amer. Statist. Assoc.* **53**, 729-735.
22. Fraser, D.A.S. (1961). On fiducial inference. *Annals Math. Statist.* **32**, 661-676.
23. Fraser, D.A.S. (1961). The fiducial method and invariance. *Biometrika* **48**, 261-280.

24. Fraser, D.A.S. (1962). On the consistency of the fiducial method. *J. Royal Statist. Soc.* **B24**, 425-434.
25. Fraser, D.A.S. (1963). On sufficiency and the exponential family. *J. Royal Statist. Soc.* **B25**, 115-123.
26. Fraser, D.A.S. (1963). On the sufficiency and likelihood principles. *J. Amer. Statist. Assoc.* **58**, 641-647.
27. Fraser, D.A.S. (1964). On the definition of fiducial probability. *Bull. Int. Statist. Inst.* **40**, 842-856.
28. Fraser, D.A.S. (1964). On local unbiased estimation. *J. Royal Statist. Soc.* **B26**, 46-51.
29. Fraser, D.A.S. (1964). Local conditional sufficiency. *J. Royal Statist. Soc.* **B26**, 52-62.
30. Fraser, D.A.S. (1964). Fiducial inference for location and scale parameters. *Biometrika* **51**, 17-24.
31. Fraser, D.A.S. (1964). On local inference and information. *J. Royal Statist. Soc.* **B26**, 253-260.
32. Fraser, D.A.S. (1965). On information in statistics. *Annals Math. Statist.* **36**, 890-896.
33. Fraser, D.A.S. (1965). Fiducial consistency and group structure. *Biometrika* **52**, 55-65.
34. Fraser, D.A.S. (1966). Structural probability and a generalization. *Biometrika* **53**, 1-9.
35. Fraser, D.A.S. (1966). Sufficiency for regular models. *Sankhya* **A28**, 137-144.
36. Fraser, D.A.S. (1966). On sufficiency and conditional sufficiency. *Sankhya* **A28**, 145-150.
37. Fraser, D.A.S. (1966). Sufficiency for selection models. *Sankhya* **A28**, 329-334.
38. Fraser, D.A.S. (1967). Sufficiency or conditional sufficiency. *Sankhya* **A29**, 239-244.
39. Fraser, D.A.S. (1967). Statistical models and invariance. *Annals Math. Statist.* **38**, 1061-1067.
40. Fraser, D.A.S. (1967). Data transformations and the linear model. *Annals Math. Statist.* **38**, 1456-1465.
41. Fraser, D.A.S. (1967). The basis of inference. *Transactions Royal Society Canada* **V**, 227-231.
42. Fraser, D.A.S. (1968). The conditional Wishart: normal and nonnormal. *Annals Math. Statist.* **39**, 593-605.
43. Fraser, D.A.S. (1968). A black box or a comprehensive model. *Technometrics* **10**, 219-229.
44. Fraser, D.A.S. (1968). Fiducial inference. *International Encyclopedia Social Sciences*. The Macmillan Company and The Free Press, 403-406.

45. Fraser, D.A.S., and Haq, M.S. (1969). Structural probability and prediction for the multivariate model. *J. Royal Statist. Soc.* **B31**, 317-331.
46. Ali, M.M., Fraser, D.A.S., and Lee, Y.S. (1970). Distribution of the correlation matrix. *J. Statist. Research* **4**, 1-15.
47. Fraser, D.A.S. and Haq, M.S. (1970). Inference and prediction for the multilinear model. *J. Statist. Research* **4**, 93-109.
48. Fraser, D.A.S., and Prentice, R.L. (1971). Randomized models and the dilution and bioassay problems. *Annals Math. Statist.* **42**, 141-146.
49. Fraser, D.A.S. (1972). Events, information processing, and the structured model. In V.P. Godambe and D.A. Sprott (Eds.), *Foundations of Statistical Inference*, 32-55. Toronto: Holt, Rinehart and Winston.
50. Fraser, D.A.S. (1972). Bayes, likelihood, or structural. *Annals Math. Statist.* **43**, 777-790.
51. Fraser, D.A.S. (1972). The determination of likelihood and the transformed regression model. *Annals Math. Statist.* **43**, 898-916.
52. Fraser, D.A.S., and Streit, F. (1972). On the Behrens-Fisher Problem. *Aust. J. Statist.* **14**, 167-171.
53. Fraser, D.A.S. (1972). Is the statistical model flat? In C.S. Carter et al (Eds.), *Proceedings of the First Conference in Applied Statistics; Statistics '71 Canada*. Montreal, 83-86.
54. Fraser, D.A.S. (1973). On statistical analysis. *Inference and Decision* **I**, 17-22.
55. Fraser, D.A.S. (1973). The elusive ancillary. In D.G. Kabe, R.P. Gupta (Eds.), *Multivariate Statistical Inference*, 41-48. Amsterdam: North Holland Publishing Company.
56. Fraser, D.A.S. (1973). Inference and redundant parameters. *Multivariate Analysis* **III**, 143-156. New York: Academic Press.
57. Fraser, D.A.S., and MacKay, J. (1975). Parameter factorization and inference based on significance, likelihood, and objective posterior. *Annals Statist.* **3**, 559-572.
58. Fraser, D.A.S. (1973). Comments on post-data two sample tests of location. *J. Amer. Statist. Assoc.* **68**, 97-106.
59. Fraser, D.A.S. (1973). Comments on the marginalization paradoxes. *J. Royal Statist. Soc.* **B35**, 225-228.
60. Fraser, D.A.S. (1974). Comparison of inference philosophies. In G. Menges (Ed.), *Information, Inference and Decision*, 77-98. Dordrecht: D. Reidel Publishing Company.
61. Fraser, D.A.S., and MacKay, Jock. (1976). On the equivalence of standard inference procedures. In Harper and Hooker (Eds.), *Foundations of Probability Theory, Statistical Inference, and Statistical Theories of Science* **II**, 47-62. Dordrecht: D. Reidel Publishing Company.
62. Fraser, D.A.S. (1976). Necessary analysis and adaptive inference. *J. Amer. Statist. Assoc.* **71**, 99-110, 112-113.

63. Fraser, D.A.S., and Fick, G.H. (1975). Necessary analysis and its implementation, Proceedings of the Symposium on Statistics and related topics, *Carleton Mathematical Notes* **12**, 5.01-5.30.
64. Fraser, D.A.S., Guttman, I., and Styan, G.P.H. (1976). Serial correlation and distributions on the sphere. *Comm. in Statist.* **A5(2)**, 97-118.
65. Fraser, D.A.S. (1976). Comments on strong inconsistency from uniform priors. *J. Amer. Statist. Assoc.* **71**, 122-123.
66. Fraser, D.A.S. (1976). Comments on rereading R.A. Fisher. *Annals Statist.* **4**, 488-489.
67. Fraser, D.A.S., and Ng, K.W. (1977). Inference for the multivariate regression model. *Multivariate Analysis* **IV**, 35-53. Amsterdam: North Holland Publishing Co.
68. Fick, G., and Fraser, D.A.S. (1976). Robustness with structural methods. *Ball State University Proceedings*, 75-93. Indiana, Muncie.
69. Fraser, D.A.S. (1977). Confidence, posterior probability, and the Buehler example. *Annals Statist.* **5**, 892-898.
70. Brenner, D., and Fraser, D.A.S. (1979). On foundations for conditional probability with statistical models – when is a class of functions a function? *Statistische Hefte* **20**, 148-159.
71. Bishop, L., Fraser, D.A.S., and Ng, K.W. (1979). Some decompositions of spherical distributions. *Statistische Hefte* **20**, 1-22.
72. Fraser, D.A.S. (1977). Comments on resolving the controversies in statistical inference. *J. Royal Statist. Soc.* **B39**, 154-155.
73. Evans, M., and Fraser, D.A.S. (1980). An optimum tolerance region for multivariate regression. *J. Mult. Anal.* **10**, 268-272.
74. Fraser, D.A.S., and Ng, K.W. (1980). Multivariate regression analysis with spherical error. *Multivariate Analysis* **V**, 369-386. Amsterdam: North Holland Publishing Co.
75. Fraser, D.A.S. (1980). Inference and the structural model for Anova and Manova. In P.R. Krishnaiah (Ed.), *Handbook of Statistics* **1**, 389-406. Amsterdam: North Holland Publishing Co.
76. Fraser, D.A.S. (1979). Comments on conditional independence. *J. Royal Statist. Soc.* **B41**, 22.
77. Feuerverger, A., and Fraser, D.A.S. (1980). Categorical information and the singular linear model. *Can. J. Statist.* **8**, 41-45.
78. Fraser, D.A.S. (1979). Comments on reference posterior distributions for Bayesian inference. *J. Royal Statist. Soc.* **B41**, 136.
79. Fraser, D.A.S., and McDunnough, P. (1980). Some remarks on conditional and unconditional inference for location-scale models. *Statistische Hefte* **21**, 224-231.
80. Brenner, D., and Fraser, D.A.S. (1980). The identification of distribution form. *Statistische Hefte* **21**, 296-304.
81. Fraser, D.A.S. (1980). Comments on some statistical paradoxes and non-conglomerability. *Bayesian Statistics*, 56-58. Valencia: University Press.

82. Brenner, D., and Fraser, D.A.S. (1981). A simplification of the traditional statistical model in the presence of symmetry. *Statistische Hefte* **22**, 195-206.
83. Brenner, D., and Fraser, D.A.S. (1980). An analytic-algebraic approach to statistical models and inference. *Mathematical Reports of the Academy of Science* **II**, 89-93.
84. Brenner, D., Fraser, D.A.S., and McDunnough, P. (1982). On asymptotic normality of likelihood and conditional analysis. *Can. J. Statist.* **10**, 163-172.
85. Fraser, D.A.S., and Streit, F. (1980). A further note on the bivariate normal distribution. *Comm. Statist. Th. Meth.* **A9**, 1097-1099.
86. Brenner, D., Fraser, D.A.S., and Monette, G. (1981). Theories of inference or simple additives. *Statistische Hefte* **22**, 231-233.
87. Fraser, D.A.S. (1983). Statistical Inference. *Encyclopedia of Statistical Sciences* **4**, 105-114.
88. Brenner, D., Fraser, D.A.S., and McDunnough, P. (1981). Transformation-parameter/structural models: Asymptotic conditional distributions. *Mathematical Reports of the Academy of Science* **3**, 49-53.
89. Brenner, D., and Fraser, D.A.S. (1982). On the foundations: statistical models and inference. *Can. J. Statist.* **10**, 155-161.
90. Evans, M., Fraser, D.A.S., and Massam, H. (1982). The Weibull model, objective form, and linear analysis. *Statistische Hefte* **23**, 110-115.
91. Brenner, D., Fraser, D.A.S., and Monette, G. (1983). On models and theories of inference: structural or pivotal analysis. *Statistische Hefte* **24**, 7-19.
92. Brenner, D., Evans, M., Fraser, D.A.S., Massam, H., and Rost, E. (1984). The identification of distribution form, II. *Statistische Hefte* **25**, 61-68.
93. Fraser, D.A.S., and McDunnough, P. (1984). Further remarks on asymptotic normality of likelihood and conditional analysis. *Can. J. Statist.* **12**, 183-190.
94. Evans, M.J., Fraser, D.A.S., and Monette, G. (1986). On principles and arguments to likelihood *Can. J. Statist.* **14**, 181-199.
95. Fraser, D.A.S. (1982). Comment on the functional-model basis of fiducial inference. *Annals Statist.* **10**, 1070-1073.
96. Fraser, D.A.S., Evans, M., and Monette, G. Structural ancillarity. In revision.
97. Fraser, D.A.S. Consistency of the necessary reduction methods. In revision.
98. Brenner, D., Fraser, D.A.S., Menges, G., and Rost, E. (1982). Model analysis with structural and stochastic partial information. *Statistische Hefte* **23**, 134-141.
99. Brenner, D., and Fraser, D.A.S. (1983). Comment on Barnard's Pivotal Inference. *Proceedings of the 1981 Bayesian Symposium at the University of Wisconsin*. Madison.
100. Fraser, D.A.S. (1985). Statistical Modelling. In E.Schneeweiss, H. Streker (Eds.), *Contributions to Econometrics and Statistics today*, 89-100. Berlin: Springer-Verlag, 89-100.
101. Fraser, D.A.S., and Evans, M. On classifying structured models. In revision.

102. Evans, M., Fraser, D.A.S., and Monette, G. (1985). On the role of principles in statistical inference. In K. Matusita (Ed.), *Statistical Theory and Data Analysis*, 225-231. New York: North-Holland.
103. Fraser, D.A.S., and Evans, M. Structural models: A classification with key examples. In revision.
104. Evans, M., Fraser, D.A.S., and Monette, G. (1985). Mixtures, embedding, and ancillarity. *Can. J. Statist.* **13**, 1-6.
105. Evans, M., Fraser, D.A.S., and Monette, G. (1985). Deduction and principles in statistics, Technical Report. Department of Statistics, University of Toronto.
106. Fraser, D.A.S., Monette, G., and Ng, K.W. (1985). Marginalization, likelihood, and structured models. *Multivariate Analysis VI*, 209-217. New York: North-Holland.
107. Fraser, D.A.S. (1988). Structural models. *Encyclopedia of Statistical Sciences* **9**, 27-32.
108. Fraser, D.A.S. (1988). Structural inference, *Encyclopedia of Statistical Sciences* **9**, 20-27.
109. Fraser, D.A.S., and McDunnough, P (1985). Asymptotic likelihood for location models. In revision.
110. Fraser, D.A.S., and Gebotys, R.J. (1987). Non-nested linear models: a conditional confidence approach. *Can. J. Statist.* **15**, 375-386.
111. Fraser, D.A.S., and Brenner, D. (1989). Probabilities and conditioning; critical examples. In revision.
112. Fraser, D.A.S. Curved (1989). Exponential models: tests and confidence intervals. In revision.
113. Fraser, D.A.S., and Monette, G. (1989). Betting assessments of probabilities. In revision.
114. Evans, M., Fraser, D.A.S., and Monette, G. (1985). On regularity for statistical models. *Can. J. Statist.* **13** 137-144.
115. Fraser, D.A.S., and Massam, H. (1987). Second-order inference for generalized least squares. *Can. J. Statist.* **15**, 21-30.
116. Fraser, D.A.S.(1988). Conditioning as opposed to standard optimality, manuscript. In revision.
117. Fraser, D.A.S., and McDunnough, P. (1988). On generalization of the analysis of variance. *Annals Inst. Statist. Math.* **40**, 353-366.
118. Fraser, D.A.S. (1988), Rotation group, *Encyclopedia of Statistical Sciences* **8**, 189-190.
119. Fraser, D.A.S. (1986), Reduced model, *Encyclopedia of Statistical Sciences* **7**, 658-659.
120. Fraser, D.A.S., and Massam, H. (1985). Conical tests: Observed levels of significance and confidence regions. *Statistische Hefte* **26**, 1-17.
121. Fraser, D.A.S., and Sackey, S.E. (1986). Prior-likelihood factorization and missing data. *Comm. Statist. Th. Meth.*, **15(11)**, 3321-3331.

122. Fraser, D.A.S. (1987) Statistics, foundations. *Encyclopedia of Physical Science and Technology* **13**, 286-297.
123. Fraser, D.A.S., and Massam, H. (1989). A mixed primal-dual bases algorithm for regression under inequality constraints; application to concave regression. *Scand. J. Statist.* **16**, 65-74.
124. Evans, M., Fraser, D.A.S., and Monette, G. (1987). Statistical principles and tangent models. In I.B. MacNeill, G.J. Umphrey (Eds.), *Foundations of Statistical Inference*, 21-29. Dordrecht: D. Reidel.
125. Fraser, D.A.S., and Massam, H. (1987). An algorithm for concave regression. In I.B. MacNeill, G.J. Umphrey (Eds.), *Foundations of Statistical Inference*, 121-132. Dordrecht: D. Reidel.
126. Fraser, D.A.S. (1987). Quadratic approximations for second order inference in non-linear least squares. In revision.
127. Fraser, D.A.S. (1985). Comment on the resolution of Godambe's paradox. *Can. J. Statist.* **13**, 298-299.
128. Brenner, D., Fraser, D.A.S., and Monette, G. (1985). On models and theories of inference; Structural of pivotal analysis *Waterloo Symposium on Statistical Inference*, Waterloo: University of Waterloo, Department of Statistics, 52-62.
129. Fraser, D.A.S. (1987). Fibre analysis and tangent models. *Statistische Hefte* **28**, 163-181.
130. Fraser, D.A.S., and Massam, H. (1988). Location inference on spheres and cylinders. *J. Statist. Plan. Inf.* **18**, 195-201.
131. Fraser, D.A.S. (1987). Sequential parameter structure, conditional inference, and likelihood drop. *Statistische Hefte* **28**, 27-52.
132. Fraser, D.A.S. (1986). Comment on parameter orthogonality and approximate conditional inference. *J. Royal Statist. Soc.* **B49**, 29.
133. Dobriyal, A., Gebotys, R., and Fraser, D.A.S. (1987). Linear calibration and conditional inference. *Comm. Statist.* **16(4)**, 1037-1048.
134. 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.
135. Fraser, D.A.S., and Reid, N. (1988). Fibre analysis and conditional inference. In K. Matusita (Ed.), *Proceedings of the Second Pacific Area Statistical Conference, Statistical Theory and Data Analysis II*, 241-247. North Holland.
136. Dobriyal, A., Fraser, D.A.S., and Gebotys, R. (1987). Approximate conditional inference and the linear functional model. *Comm. Statist. Th. Meth.* **16(12)**, 3729-37.
137. Fraser, D.A.S., McDunnough, P., and Reid, N. (1987). Some aspects of conditioning. In M.S. Haq, S.B. Provost (Eds.), *Recent Developments in Statistics and Actuarial Science*, 1-13. London, Ontario: Scitex.
138. Fraser, D.A.S., and Reid, N. (1988). On comparing two methods for approximate conditional inference. *Statistische Hefte* **29**, 271-280.

139. Fraser, D.A.S. (1988). Normed likelihood as saddlepoint approximation. *J. Mult. Anal.* **27**, 181-193.
140. DiCiccio, T.J., Field, C.A., and Fraser, D.A.S. (1990). Approximations of marginal tail probabilities and inference for scalar parameters. *Biometrika* **77**, 77-95.
141. Fraser, D.A.S., and Reid, N. (1989). Adjustments to profile likelihood, *Biometrika* **76**, 477-488.
142. Fraser, D.A.S., Reid, N., and Wong, A. (1991). Exponential linear models: a two pass procedure for saddle point approximation. *J. Royal Statist. Soc.* **B53**, 483-492.
143. Fraser, D.A.S. (1990). Tail probabilities from observed likelihoods. *Biometrika* **77**, 65-76.
144. Reid, N., and Fraser, D.A.S. (1989). Comments on the geometry of asymptotic inference. *Statist. Sci.* **4**, 231-233.
145. Fraser, D.A.S., Lee, H.S., and Reid, N. (1990). Nonnormal linear regression, an example of significance levels in high dimensions. *Biometrika* **77**, 333-341.
146. Fraser, D.A.S., Reid, N., and Wong, A. (1997). Simple and accurate inference for the mean of the gamma model. *Canadian J. Statist* **25**, 91-99.
147. Fraser, D.A.S. (1988). Normed likelihood as saddlepoint approximation. In Rao, C.R. (Ed.), *J. Multivariate Anal.* **27**, 181-193. San Diego: Academic Press.
148. Fraser, D.A.S., and Reid, N. (1990). Statistical inference: on theoretical methods and directions. *Environmetrics* **1**, 21-35.
149. Fraser, D.A.S., and Reid, N. (1991). Converting observed likelihoods to tail probabilities, *Computational Statistics and Data Analysis* **12**, 179-185.
150. Fraser, D.A.S. (1990). Views on conditional and marginal methods of statistical inference. *Statistische Hefte* **31**, 83-93.
151. Fraser, D.A.S., and Reid, N. (1990). Discussion of an ancillarity paradox which appears in multivariate regression. *Annals Statist.* **18**, 503-507.
152. Fraser, D.A.S., McDunnough, P., Naderi, A., and Plante, A. (1995). On the definition of probability densities and the sufficiency of the likelihood map. *Jour. Prob. Math. Statist.* **15**, 301-310.
153. Fraser, D.A.S. (1990). On R.A. Fisher *Chance* **3**, 30.
154. Fraser, D.A.S., and Reid, N. (1990). From multiparameter likelihood to tail probabilities for a scalar parameter. Technical Report, University of Toronto, Department of Statistics.
155. Fraser, D.A.S. (1990). Comment on inferential estimation, likelihood, and linear pivots. *Can. J. Statist.* **18**, 14-15.
156. Fraser, D.A.S., Guttman, I., and Srivastava, M.S. (1991). Conditional inference for treatment and error in multivariate analysis, *Biometrika* **78**, 565-72.
157. Fraser, D.A.S. (1991). On properties of sufficiency and statistical tests. In Kotz, S., and Johnson, L.J. (Eds.), *Breakthroughs in Statistics I*, 109-112. New York: Springer-Verlag.

158. Fraser, D.A.S. (1993). Directional tests and statistical frames. *Statistical Papers* **34**, 213-236.
159. Fraser, D.A.S. (1991). Statistical inference: Likelihood to significance. *J. Amer. Statist. Assoc.* **86**, 258-265.
160. Cheah, P.K., Fraser, D.A.S., and Reid, N. (1994). Multiparameter testing in exponential models: third order approximations from likelihood. *Biometrika* **81**, 271-278.
161. Cheah, P.K., Reid, N., Fraser, D.A.S., and Tapia, A. (1992). Third order asymptotics: connections among test quantities. *Comm. Statist Th. Meth.* **21(8)**, 2127-33.
162. Fraser, D.A.S., and Wong, A.C.M. (1993). Approximate Studentization with marginal and conditional inference. *Can. J. Statist.* **21**, 313-320.
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253. Fraser, D.A.S., Saleh, A.K.Md.E. and Ji, K. (2010). Combining p -values: Third order. *Journal Statistical Research: Efron Volume* **44**, to appear.
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259. Fraser, D.A.S. and Reid, N. (2011). On default priors and approximate location models. *Brazilian Journal of Probability and Statistics*, **25**, 353-361.
260. Fraser, D.A.S. (2011). Assessing a value for an interest parameter by using a definitive reference distribution. *Biometrika*, in revision.
261. Fraser, D.A.S. (2011). Default priors: Measuring Bayes bias for interest parameters.
262. Fraser, D.A.S. (2011). On defining and determining the p -value function.
263. Fraser, A,J, and Fraser, D.A.S. (2011). Adaptive time series analysis.
264. Fraser, D.A.S., Hoang, U., Ji, K., Li, X., Li, L., Lin, W., and Su, J. (2012). Vector exponential models and second order analysis.
265. Fraser, A.M., Fraser, D.A.S., Fraser, M.J. (2011). An adjusted Jeffreys prior.

RECENT ADDRESSES

- 89.1 Some directions for conditional inference. Inst. Math Statist. Lexington, KY. March 20, 1989
- 89.2 Statistical inference: its contributions and directions. Environmetrics Conference. Cairo. April 6, 1989

- 89.3 Statistical inference: on reduction methods and new directions. University of Windsor. April 26, 1989
- 89.4 Some recent results in inference. University of Madrid. June 9, 1989
- 89.5 Conditional and marginal methods of inference. Amer. Statist. Assoc., Washington. August 8, 1989
- 89.6 Some improvements for normal approximations in large samples. University of Montreal. October 4, 1989
- 89.7 Improvements to normal approximations in large samples. University of Toronto. October 10, 1989
- 89.8 Second order corrections to limiting normality in large samples. Amer. Math. Soc. meeting. Muncie, Indiana. October 27, 1989
- 89.9 Some improvements for the normal approximation. York University. November 30, 1989
- 89.0 Corrections to normality for inference. University of Waterloo. December 13, 1989
- 90.1 How close can a normal approximation be? University of Western Ontario. January 19, 1990
- 90.2 Processing likelihood to probability. Stanford University. February 20, 1990
- 90.3 Data analysis and statistical foundations. Conference on Data Analysis and Statistical Foundations Toronto, Ontario. June 1, 1990
- 90.4 Converting likelihood to significance. Statistical Society of Canada workshop. Niagara-on-the-Lake, Ontario. June 29, 1990
- 90.5 From likelihood to significance: Linking the Fisher concepts. R.A. Fisher lecture and prize. Anaheim, California. August 8, 1990
- 90.6 Statistical inference; likelihood to significance. Environmetrics International Meeting. Como, Italy. September 30, 1990
- 90.7 Some new approaches to conditional inference. McMaster University. October 9, 1990
- 90.8 Statistical inference as likelihood to significance. University of Waterloo. November 1, 1990
- 90.9 Likelihood functions and significance functions. Carleton University. November 23, 1990
- 91.1 Converting likelihood to significance. University of Western Ontario. February 1, 1991
- 91.2 Inference with semiparametric models. International Symposium on Nonparametric Methods. Carleton University. May 6, 1991
- 92.1 Some recent asymptotics in statistical inference. University of California, Santa Barbara. March 6, 1992
- 92.2 Higher order asymptotics with generalized linear models. International Symposium in Multivariate Analysis. Hong Kong. March 17, 1992
- 92.3 Some recent directions in statistical inference. Department of Statistics, University of Waterloo. June 29, 1992

- 92.4 Statistics as the meta language of science. Convocation address. University of Waterloo. June 30, 1992
- 92.5 Ancillaries and third order significance. Invited address, Institute Mathematical Statistics, Penn State University. October 26, 1992
- 93.1 Methods of third order Significance. International Symposium on Inference and Biostatistics. Guanajuato, Mexico. March 23, 1993
- 93.2 From likelihood to significance. University of South Florida. Tampa, Florida. April 9, 1993
- 93.3 Significance with nuisance parameters. Rutgers University, New Jersey. April 8, 1993
- 93.4 Towards closer connections between mathematics and statistics. 150 years of mathematics at the University of Toronto. May 15, 1993
- 94.1 Statistical inference and significance for scalar parameters. University of Waterloo. February 10, 1994
- 94.2 Objective priors for component parameters. Third Valencia Conference on Bayesian Statistics. Alicante, Spain. June 5, 1994
- 94.3 On Statistics and the Environment. Environmetrics Conference. Hamilton, Canada. August 18, 1994
- 94.4 Directions and approximations in statistical inference. Columbia Univ., Dept. of Statistics, New York. November 21, 1994
- 95.1 Directions in recent statistical inference. Dept of Statistics, Stanford University, California. February 28, 1995
- 95.2 Separating error, Nuisance effect, and interest effect. International Conference on Statistical Inference. Brixen, Italy. June 25, 1995
- 95.3 Asymptotics: Its contribution to the theory and methods of statistical inference. Institute of Mathematical Statistics. Montreal, Quebec. July 13, 1995
- 95.4 Priors and posteriors for scalar parameters. International Bayesian Conference. Oaxaca, Mexico. September 29, 1995
- 95.5 New theory in statistical inference. Dept of Statistics, Iowa State University. Ames, Iowa. November 3, 1995
- 95.6 Some recent methods in statistical inference. International Conference in Pure and Applied Mathematics. University of Bahrain, Bahrain. November 19, 1995
- 96.1 How do you like your likelihoods? Symposium on the Foundations of Statistical Inference. University of Waterloo. October 3, 1996
- 96.2 Data dependent priors for scalar interest parameters. Workshop on Default Bayesian Methodology. Purdue University. November 2, 1996
- 96.3 Nonsubjective priors for probability matching posteriors. 4th International Society Bayesian Analysis Meeting. Cape Town. December 17, 1996
- 97.1 Probability matching: the frequentist Bayesian Interface. University of Western Ontario. January 30, 1997

- 97.2 The problem of inference and likelihood asymptotics. Florida Atlantic University International Conference on Combinatorics, Graph theory, and Computing Boca Raton, Florida. March 4, 1997
- 97.3 The problem of inference and likelihood asymptotics. University of Toronto. January 30, 1997
- 97.4 The problem of inference and likelihood asymptotics. Nonparametric Statistics and Related Topics. Carleton University, Ottawa. May 5, 1997
- 97.5 Ancillary information for statistical inferencetics. International Conference on Multivariate Analysis. Hong Kong. June, 1997
- 97.6 Constructing second order ancillaries. CRM Workshop on Likelihood Asymptotics. Banff. July, 1997
- 97.7 The problem of inference and likelihood asymptotics. CRM University of Montreal, Montreal. November 10, 1997
- 98.1 Simple and accurate p-values. Dept of Statistics, Michigan State University. E Lansing, Michigan. March 24, 1998
- 98.2 Inference from likelihood asymptotics: simple and unique. University of California. Davis, California. April 20, 1998
- 98.3 Does the Bayesian need or want model information other than at the data point. Purdue University, Illinois. June 18, 1998
- 98.4 Some useful integrals for asymptotic densities: The mystery of hyper-accuracy. University of Montreal, Montreal. December 3, 1998
- 99.1 Some useful integrals for asymptotic densities: The mystery of hyper-accuracy. University of Chicago. January 13, 1999
- 99.2 Directions in likelihood asymptotics Statistical Society of Australia, Monash University, Melbourne, Australia. April 19, 1999
- 99.3 Recent directions in likelihood asymptotics. University of Sydney. Sydney, Australia. April 23, 1999
- 99.4 Strong matching of frequentist and Bayesian inference. International Workshop on Objective Bayesian Methodology. University of Valencia, Valencia. June 13, 1999
- 00.1 Likelihood asymptotics: Removing the singularities. Bernoulli-IMS World Congress. Guanajuato, Mexico. May 18, 2000
- 00.2 Ancillaries and Conditional Inference. Data Analysis and Statistical Foundations II, Fields Institute. Toronto, Canada. June 15, 2000
- 00.3 Default priors: Deference priors from Observed Information. Workshop on Inference and Asymptotics. Center Stefano Franscini. Ascona, Italy. July 10, 2000
- 00.4 Objective priors that defer to model shape. Third International Conference on Objective Bayes Methodology. Ixtapa. September 23, 2000
- 00.5 Objective Bayesian analysis based on model shape. Florida State University. September 29, 2000

- 00.6 Objective Bayesian analysis based on model shape. University of Western Ontario. November 30, 2000
- 00.7 Frequentist or objective Bayesian analysis. University of Waterloo. December 7, 2000
- 01.1 On the Bayesian frequentist interface. University of Toronto. January 11, 2001
- 01.2 Likelihood for interest parameters. Stern School of Business. New York University. March 30, 2001
- 01.3 Objective priors for scalar parameters. International Society for Bayesian Analysis. University of California Irvine. April 7, 2001
- 01.5 Economic models and modern likelihood analysis. Fox School of Business, Temple University. April 27, 2001
- 01.4 Some recent aspects of likelihood inference. Dalhousie University. November 8, 2001
- 02.1 Likelihood for component parameters. University of Western Ontario. January 10, 2002
- 02.2 Likelihood for component parameters. University of Waterloo. January 26, 2002
- 02.3 Is the future Bayesian or frequentist I. Fields Institute, Toronto. April 16, 2002
- 02.4 Is the future Bayesian or frequentist II. Fields Institute, Toronto. April 18, 2002
- 02.5 Direct Bayes for an interest parameter. Valencia 7, Tenerife. June 4, 2002.
- 02.6 Quarks and a bounded Poisson parameter. Padova, Italy. October 17, 2002 June 4, 2002.
- 02.7 How likelihood analysis gives simple inference results in general contexts. Swiss Federal Institute, Zurich November 15, 2002.
- 02.8 p-values without default priors. Workshop on Default priors, Granada, Spain December 7, 2002.
- 03.1 Student analysis and higher order likelihood theory. EPFL Lausanne. January 17, 2003
- 03.2 Recent likelihood theory: Analysis as simple as the Normal location scale case. University of Geneva. January 30, 2003.
- 03.3 Likelihood analysis and the SUR model. Dept of Econometrics, University of Geneva May 16, 2003.
- 03.4 Recent likelihood analysis. Dept of Computer Science, University of Fribourg. May 23, 2003.
- 04.1 Is there total inference? Saddlepoint and beyond. Dept of Mathematics, University of British Columbia January 15, 2004.
- 04.2 Statistical models and the implications. Dept of Statistics, University of Western Ontario February 5, 2004.
- 04.3 Model with data; What does it say? Dept of Statistics, University of Toronto. April 1, 2004.
- 04.4 Assessing vector parameters. Conference for Sir David Cox Neuchatel July 16, 2004.

- 04.5 Is there statistical inference? The Bayesian-frequentist divergence. Dept. of Statistics, Case Western Reserve University October 1, 2004.
- 05.1 Neutral priors. COBAL2 Baja, California, Mexico. February 6-10, 2005.
- 05.2 Why a prior? Dept of Statistics, Univ of Toronto Munk Centre April 28, 2005.
- 05.3 Objective and other priors. OBayes 5 Branson, Missouri. June 8, 2005.
- 05.4 What model information is appropriate for the Bayesian paradigm? Statistical Society of Canada, Annual meeting. Saskatoon, Saskatchewan. June 15, 2005.
- 05.5 Some thoughts on model based priors. Dept of Statistics, University of Waterloo Waterloo, Canada. November 17, 2005.
- 05.6 Should Bayesians and frequentists calibrate their parameters? Dept of Statistics, University of Western Ontario London, Canada. December 8, 2005.
- 06.1 Default priors for Bayesian and frequentist inference. Valencia 8, ISBA 2006 Benidorm, Spain. June 6, 2006.
- 06.2 Combining p-values from independent sources. International Conference on Nonparametric Statistics, Carleton University, Ottawa, Canada Sept 15, 2006.
- 06.3 Pivot or prior: the Bayesian-frequentist choice, Dept of Statistics, Simon Fraser University, Vancouver, B.C. November 17, 2006.
- 07.1 Data-based probability for parameter values, ORFE, Princeton University Princeton, New Jersey February 13, 2007.
- 07.2 Default priors for frequentist and Bayesian inference. Joint Statistical Meetings 2007 Salt Lake City, Utah July 31, 2007.
- 08.1 The Bayes myth - Probabilities. Or just approximate confidence. University of Western Ontario, London, Feb 7, 2008.
- 08.2 Bayesian posterior probability is just confidence and inconveniently needs linearity. McMaster University, April 1, 2008.
- 08.3 Parameter curvature and the Bayesian frequentist divergence. University of Wales, Gregynog, April 18, 2008.
- 08.4 Overview of parameter curvature. University of Wales, Gregynog, April 19, 2008.
- 08.5 The quantile function in statistical inference. Texas A. & M. University, May 12, 2008.
- 08.6 Some thoughts on the Bayesian-frequentist divergence. XLI Congreso Nacional de la Sociedad Matematica Mexicana, Valle de Bravo, Mexico. October 22, 2008.
- 08.7 Bayes linearity and confidence. Department of Statistics, Columbia University, NYC. November 24, 2008.
- 09.1 Likelihood, p-values, ancillaries and the vector quantile function. Statistical Laboratory, U of Cambridge, May 5, 2009.
- 09.2 Yanling Cai, Jean-François Plante, Ramya Thinniyam, D.A.S. Fraser. r vs r^* – Magic from Taylor Expansions. Statistical Society of Canada, Vancouver, June 2, 2009.
- 09.3 Can theory calibrate the tools in the statistical toolbox? Montreal Statistical Colloquium, University of Montreal, Montreal, Canada. November 6, 2009.

- 09.4 Curvature for the Bayes-frequentist disconnect. Canadian Mathematical Society, Winter meeting, Windsor, Canada. December 6, 2009.
- 10.1 Identity for Statistics: Calibration in Statistics DASF III Conference, Fields Institute, Toronto, Canada. May, 2010.
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