

## Publications

1. Millar, M. and **Hamilton, D.C.**, (1999), Tests following outlier detection in linear regression, *The Journal of Statistical Computation and Simulation*, **64**, **2**, 125-150.
2. **Hamilton, D.C.** and Lesperance, M.L., (1998), Calculating the MVUE of the fraction nonconforming for the bivariate normal. *The Journal of Statistical Computation and Simulation*, **61**, pp 259-270.
3. **Hamilton, D. C.** and Knop, O., (1998), Combining nonlinear regressions that have unequal error variances and some parameters in common. *Applied Statistics*, **47**, pp. 173-185.
4. **Hamilton, D.C.** and Lesperance, M.L., (1997), A comparison of ML and MVU estimators of the proportion nonconforming in univariate and bivariate normal samples. *The Journal of Statistical Computation and Simulation*, **59**, pp. 333-348.
5. Wentzell, P.D., Andrews, D.T., Wentzell, P.D. and **Hamilton, D.C.**, Faber, K. and Kowalski, B.R., (1997), Maximum likelihood principal component analysis, *Journal of Chemometrics*, **11**, pp. 339-366.
6. Andrews, D.T., Chen, L., Wentzell, P.D. and **Hamilton, D. C.**, (1996), Comments on the relationship between principal component analysis and weighted linear regression for bivariate data sets, *Chemometrics and Intelligent Laboratory Systems*, **34**, **2**, pp. 231-244.
7. **D.C.**, Cole, D.E.C., McDonald, A.T.J., Acott, P.D., (1996), Thyroid hormone modulation of glucocorticoid-induced polycystic kidney disease, *Jour. Amer. Soc. Nephrology*, **7**, pp. 633-634.
8. Ruzzante, D.E., **Hamilton, D.C.**, Kramer, D.L., and Grant, J.W.A, (1996), Scaling of the variance and the quantification of resource monopolization. *Behavioural Ecology*, **7**, **2**, pp. 199-207.
9. **Hamilton, D.C.** and Lesperance, M.L., (1995), A comparison of methods for univariate and multivariate acceptance sampling by variables, *Technometrics*, **37**, **3**, pp. 1-11.

10. **Hamilton, D.C.** and Wu, H.K., (1995), Confidence regions for the parameters in an AR(1) model, *Journal of Time Series Analysis*, **16**, pp. 249-265.
11. Pollak, P.T., **Hamilton, D.C.** and Veldhuysen van Zanten, S.J.O., (1994), Helicobacter pylori: populations and cohorts, (Letter to the Editor), *J. Infect. Dis.*, **170**, **6**, pp. 1635-1636.
12. Corsten, P.G., Blight, C.E., Riddell, D.C., **Hamilton, D.C.** item MacDonald, WK., Kuhle, S and Hamilton, D.C., SMA carrier testing: a meta-analysis of differences in test performance by ethnic group, accepted *Prenatal Diagnosis* July 2014.
13. Horrocks, J., Rueffer, M., Hamilton, D.C. and Wong, S. (2014). Estimation of Abundance from a Correlated Binary Time Series, Proceedings, AMMCS-2013 (Applied Mathematics, Modeling and Computational Science Conference). Wilfrid Laurier University, Waterloo, ON. August 30, 2013. and Cole, D.E.C., (1994), Molecular diagnosis of Cystic Fibrosis in maritime Canada. *Clinical & Investigative Medicine*, **17**, pp. 1-8.
14. Knop, O. and **Hamilton, D.C.**, (1992), The *trans* effect: methodological musings. *Can. J. Chem.*, **70**, pp. 2574-2601.
15. **Hamilton, D.C.**, (1992), Analysis of fish behaviour data. *Canadian Journal of Statistics*, **20**, **2**, 1992, pp. 228-233.
16. **Hamilton, D.C.** and Lesperance, M.L., (1991), A consulting problem involving bivariate acceptance sampling by variables. *Canadian Journal of item MacDonald, WK., Kuhle, S and Hamilton, D.C., SMA carrier testing: a meta-analysis of differences in test performance by ethnic group, accepted Prenatal Diagnosis July 2014.*
17. Horrocks, J., Rueffer, M., Hamilton, D.C. and Wong, S. (2014). Estimation of Abundance from a Correlated Binary Time Series, Proceedings, AMMCS-2013 (Applied Mathematics, Modeling and Computational Science Conference). Wilfrid Laurier University, Waterloo, ON. August 30, 2013. *Statistics*, **19**, **1**, pp. 109-117.
18. Cole, D.E.C., Evans, J.R., **Hamilton, D.C.** and Raad, M., (1990), Inorganic sulphate metabolism in the very low birthweight infant, *Biology of the Neonate*, **57**, 1990, pp. 292-299.

19. Evans, J.R., Allen, A.C., Stinson, D.A., **Hamilton, D. C.**, Brown, B. St.J., Vincer, M.J., Nwaesei, C.G., Raad, M.A., Gundberg, C.M., and Cole, D.E.C., (1989), Effect of high dose vitamin D supplementation on radiographically detectable metabolic bone disease of very low birth weight infants, *The Journal of Pediatrics*, 115, pp. 779-786.
20. **Hamilton, D.C.**, (1988), Reply (to "The relationship between the multiple and the zero-order correlation coefficients" by S. Mitra, and "When is  $R^2 > r_{yx_1}^2 + r_{yx_2}^2$ ? item MacDonald, WK., Kuhle, S and Hamilton, D.C., SMA carrier testing: a meta-analysis of differences in test performance by ethnic group, accepted *Prenatal Diagnosis* July 2014.
21. Horrocks, J., Rueffer, M., Hamilton, D.C. and Wong, S. (2014). Estimation of Abundance from a Correlated Binary Time Series, Proceedings, AMMCS-2013 (Applied Mathematics, Modeling and Computational Science Conference). Wilfrid Laurier University, Waterloo, ON. August 30, 2013. (Revisited)", by R.J. Freund) *The American Statistician*, **42**, **1**, pp. 90-91.
22. **Hamilton, D.C.**, (1987), A comparison of two exact confidence regions for partially nonlinear regression models. *The Canadian Journal of Statistics*, **15**, **2**, pp. 127-135.
23. **Hamilton, D.C.**, (1987), Sometimes  $R^2 > r_{yx_1}^2 + r_{yx_2}^2$  (Correlated variables are not always redundant). *The American Statistician*, **41**, **2**, pp. 129- 132.
24. **Hamilton, D.C.** and Wiens, D.P., (1987), Correction factors for F ratios in nonlinear regression. *Biometrika*, **74**, **2**, pp. 423- 425.
25. **Hamilton, D.C.**, (1986), Confidence regions for parameter subsets in nonlinear regression. *Biometrika*, **73**, **1**, pp. 57- 64.
26. **Hamilton, D.C.** and Watts, D.G., (1985), A quadratic design criterion for precise estimation in nonlinear regression models. *Technometrics*, **27**, pp. 241- 250.
27. Crocker, J.F.S., Muhtadie, S.F. **Hamilton, D.C.**, and Cole, D.E.C., (1985), The comparative nephrotoxicity of vitamin D metabolites in the weanling mouse. *Toxicology and Applied Pharmacology*, **80**, pp. 119- 126.

28. Hardman, M., Herbert, H.J., Sanford, K.H. and **Hamilton, D. C.**, (1985), Effect of populations of the European red mite, *panonychus ulmi*, on the apple variety red delicious in Nova Scotia. *The Canadian Entomologist*, **117**, pp. 1257- 1265.
29. Beanlands, H.E., Bryson, S.E., MacKay, R.C. and **Hamilton, D.C.**, (1985), Coping behaviours of the accidentally injured: a preliminary report, *The Bulletin and Clinical Review of Burn Injuries*, **1**, p. 37.
30. Herbert, H.J., **Hamilton, D.C.** and Gabor, G., (1983), Sampling leaves to estimate the density of brown mite, *Bryobia rubrioculus*, on apples. *The Canadian Entomologist*, **115**, pp. 1229- 1231.
31. Bates, D.M., **Hamilton, D.C.** and Watts, D.G., (1983), Calculation of intrinsic and parameter- effects curvatures for nonlinear regression models. *Communications in Statistics Part B: Simulation and Computation*, **12**, **4**, pp. 469- 477.
32. **Hamilton, D.C.**, Watts, D.G. and Bates, D.M., (1982), Accounting for intrinsic nonlinearity in nonlinear regression parameter inference regions. *The Annals of Statistics*, **10**, **2**, pp. 386- 393.
33. Armstrong, P.W., Watts, D.G., **Hamilton, D.C.**, Chiong, M.A. and Parker, J.O., (1979), Quantification of myocardial infarction: Template model for serial creatine kinase analysis. *Circulation*, **60**, **4**, pp. 856- 865.
34. **Hamilton, D.C.** and Watts, D.G., (1978), Interpreting partial autocorrelation functions of seasonal time series models. *Biometrika*, **65**, **1**, pp. 135- 140.