

Publications:

1. Lee, S.Y. & Poon, W.Y. (1985). Further developments on constrained estimation in analysis of covariance structures. *The Statistician*, 34, 305-316.
2. Lee, S.Y. & Poon, W.Y. (1986). Maximum likelihood estimation of polyserial correlations. *Psychometrika*, 51, 113-121.
3. Lee, S.Y. & Poon, W.Y. (1987). Two-step estimation of multivariate polychoric correlation. *Communications in Statistics: Theory and Methods*, 16, 307-320.
4. Poon, W.Y. & Lee, S.Y. (1987). Maximum likelihood estimation of multivariate polyserial and polychoric correlation coefficient. *Psychometrika*, 52, 409-430.
5. Lee, S.Y. & Poon, W.Y. (1987). Maximum likelihood estimation of multiple correlations and canonical correlations with categorical data. *Applied Psychological Measurement*, 11, 317-323.
6. Lee, S.Y. & Poon, W.Y. (1987). Generalized least squares and maximum likelihood estimation of multivariate polychoric correlations. *Acta Mathematicae Applicatae Sinica*, 3, 351-357.
7. Lee, S.Y. & Poon, W.Y. (1988). Estimations of correlations in a multidimensional contingency table by GLS and partition GLS approaches. *Computational Statistics Quarterly*, 4, 59-70.
8. Bentler, P.M., Poon, W.Y. & Lee, S.Y. (1988). Generalized multimode latent variable model: Implementation by standard programs. *Computational Statistics and Data Analysis*, 6, 107-118.
9. Lee, S.Y. & Poon, W.Y. (1989). A general model for analysis of categorical data in several groups. *Computational Statistics Quarterly*, 5, 11-25.
10. Lee, S.Y., Poon, W.Y. & Bentler, P.M. (1989). Simultaneous analysis of multivariate polytomous variates in several groups. *Psychometrika*, 54, 63-73.
11. Lee, S.Y., Poon, W.Y. & Bentler, P.M. (1990). Full maximum likelihood analysis of structural equation models with polytomous variables. *Statistics and Probability Letters*, 9, 91-97.
12. Lee, S.Y., Poon, W.Y. & Bentler, P.M. (1990). A three-stage estimation procedure for structural equation models with polytomous variables. *Psychometrika*, 55, 45-51.
13. Poon, W.Y., Lee, S.Y., Afifif, A.A. & Bentler, P.M. (1990). Analysis of multivariate polytomous variates in several groups via the partition maximum likelihood approach. *Computational Statistics and Data Analysis*, 10, 17-27.
14. Lee, M.L., Poon, W.Y. & Kingdon, H.S. (1990). A two-phase linear regression model for biological half-life data. *The Journal of Laboratory and Clinical Medicine*, 115, 745-748.
15. Poon, W.Y., Lee, S.Y. & Bentler, P.M. (1990). Pseudo maximum likelihood estimation of multivariate polychoric and polyserial correlations. *Computational Statistics Quarterly*, 1, 41-53.
16. Fu, F.H. & Poon, W.Y. (1990). A comparison of the development of sport culture in the People's Republic of China and Hong Kong (A preliminary report). *Journal of International Council for Health Physical Education and Recreation*, Fall, 9-16.
17. Lee, S.Y., Poon, W.Y. & Bentler, P.M. (1992). Structural equation models with continuous and polytomous variables. *Psychometrika*, 57, 89-105.
18. Poon, W.Y. & Lee, S.Y. (1992). Maximum likelihood and generalized least squared analyses of two-level structural equation models. *Statistics and Probability Letters*, 14, 25-30.

19. Poon, W.Y. & Lee, S.Y. (1992). Statistical analysis of continuous and polytomous variables in several populations. *British Journal of Mathematical and Statistical Psychology*, 45, 139-149.
20. Lee, S.Y. & Poon, W.Y. (1992). Two-level analysis of covariance structures for unbalanced designs with small level-one samples. *British Journal of Mathematical and Statistical Psychology*, 45, 109-123.
21. Poon, W.Y., Lee, S.Y., Bentler, P.M. & Afif, A.A. (1993). Covariance structural analysis with polytomous variables in several populations. *Acta Mathematicae Applicatae Sinica*, 9, 63-70.
22. Yau, Linda H.Y., Lee, S.Y. & Poon, W.Y. (1993). Covariance structure analysis with three-level data. *Computational Statistics and Data Analysis*, 15, 159-178.
23. Lee, S.Y. & Poon, W.Y. (1993). Structural equation models with hierarchical data. In K. Haagen, D.J. Bartholomew & M. Deistler (Eds) *Statistical Modelling and Latent Variables*, 203-227. North-Holland: Elsevier Science Publishers.
24. Poon, W.Y., Lee, S.Y. & Bentler, P.M. (1993). Maximum likelihood estimation in a model with interval data. *Journal of Applied Statistics*, 20, 219-227.
25. Poon, W.Y. & Leung, Y.P. (1993). Analysis of structural equation models with interval and polytomous data. *Statistics and Probability Letters*, 17, 127-137.
26. Poon, W.Y. & Lee, S.Y. (1994). A distribution free approach for analysis of two-level structural equation model. *Computational Statistics and Data Analysis*, 17, 265-275.
27. Lee, S.Y., Poon, W.Y. & Bentler, P.M. (1994). Covariance and correlation structure analyses with continuous and polytomous variables. *Multivariate Analysis and Its Applications, IMS Lecture Notes-Monograph Series*, 24, 347-358.
28. Lee, S.Y. & Poon, W.Y. (1995). Estimation of factor scores in a two-level confirmatory factor analysis model. *Computational Statistics and Data Analysis*, 20, 275-284.
29. Lee, S.Y., Poon, W.Y. & Bentler, P.M. (1995). A two-stage estimation of structural equation models with continuous and polytomous variables. *British Journal of Mathematical and Statistical Psychology*, 48, 339-358.
30. Poon, W.Y. & Hung, H.Y. (1996). Analysis of square tables with ordered categories. *Computational Statistics and Data Analysis*, 22, 303-322.
31. Poon, W.Y., Lee, S.Y. & Tang, M.L. (1997). Analysis of structural equation models with censored data. *British Journal of Mathematical and Statistical Psychology*, 50, 227-241.
32. Poon, W.Y., Tang, M.L. & Lee, S.Y. (1997). Analysis of covariance structures with truncated variables. *Behaviormetrika*, 24, 39-50.
33. Lee, S.Y. & Poon, W.Y. (1998). Analysis of two-level structural equation models via EM type algorithms. *Statistica Sinica*, 8, 749-766.
34. Poon, W.Y. & Poon, Y.S. (1999). Conformal normal curvature and assessment of local influence. *Journal of Royal Statistical Society, B*, 61, 51-61.
35. Poon, W.Y. & Lee, C.M. (1999). Sources of heterogeneity in distributions with ordered categorical variables. *Journal of Applied Statistics*, 26, 383-392.
36. Poon, W.Y. (1999). Bayesian analysis of square ordinal-ordinal tables. *British Journal of Mathematical and Statistical Psychology*, 52, 111-124.
37. Poon, W.Y., Wang, S.J. & Lee, S.Y. (1999). Influence analysis of structural equation models with polytomous variables. *Psychometrika*, 64, 461-473.

38. Poon, W.Y. & Lee, S.Y. (1999). Two practical issues in using LISCOMP for analysing continuous and ordered categorical variables. *British Journal of Mathematical and Statistical Psychology*, 52, 195-211.
39. Poon, W.Y., Lew, S.F. & Poon, Y.S. (2000). A local influence approach to identify multiple multivariate outliers. *British Journal of Mathematical and Statistical Psychology*, 53, 255-273.
40. Poon, W.Y. & Poon, Y.S. (2001). Conditional local influences in case-weights linear regression. *British Journal of Mathematical and Statistical Psychology*, 54, 177-191.
41. Poon, W.Y. & Tang, M.L. (2001). Influence measure in maximum likelihood estimate to models of lifetime data. *Journal of Applied Statistics*, 28, 737-742.
42. Poon, W.Y. & Poon, Y.S. (2002). Influential observations in the estimation of mean vector and covariance matrix. *British Journal of Mathematical and Statistical Psychology*, 55, 177-192.
43. Poon, W.Y., Leung, K. & Lee, S.Y. (2002). The Comparison of single item constructs by relative mean and relative variance. *Organizational Research Methods*, 5, 275-298.
44. Poon, W.Y. & Ng, S.C. (2002). Identification of influential cells in the analysis of ordinal square tables. *British Journal of Mathematical and Statistical Psychology*, 55, 231-246.
45. Poon, W.Y. & Poon, Y.S. (2002). Total behavior of likelihood displacement. *Statistica Sinica*, 12, 599-607.
46. Poon, W.Y. & Chan, W. (2002). Influence analysis of ranking data. *Psychometrika*, 67, 421-436.
47. Poon, W.Y. & Tang, F.C. (2002). Multisample analysis of multivariate ordinal categorical variables. *Multivariate Behavioral Research*, 37, 479-500.
48. Poon, W.Y., Tang, M.L. & Wang, S.J. (2003). Influence measures in contingency table with application in sampling zeros. *Sociological Methods and Research*, 31, 439-452.
49. Lee, S.Y., Song, X.Y. & Poon, W.Y. (2004). Comparison of approaches in estimating interaction and quadratic effects of latent variables. *Multivariate Behavioral Research*, 39(1), 37-67.
50. Poon, W.Y. & Wong, Y.K. (2004). A forward search procedure to identifying influential observations in the estimation of covariance matrix. *Structural Equation Modeling: A Multidisciplinary Journal*, 11(3), 357-374.
51. Poon, W.Y. (2004). Identifying influential observations in discriminant analysis. *Statistical Methods in Medical Research: An International Review Journal*, 13(4), 291-308.
52. Poon, W.Y. (2004). A latent normal distribution model for analyzing ordinal responses with applications in meta-analysis. *Statistics in Medicine*, 23(14), 2155-2172.
53. Poon, W.Y. (2006). Identifying influential observations in logistic discriminant analysis. *Statistics and Probability Letters*, 76, 1348-1355.
54. Bai, Y., Poon, W.Y. & Cheung, G. W.H. (2006). Analysis of a two-level structural equation model with group-specific variables in LISREL. *Structural Equation Modeling: A Multidisciplinary Journal*, 13(4), 544-565.
55. Xu, L., Lee, S.Y. & Poon, W.Y. (2006). Deletion measures for generalized linear mixed effects models. *Computational Statistics and Data Analysis*, 51, 1131-1146.

56. Poon, W.Y. & Poon, Y.S. (2007). Local Conditional Influence. *Journal of Applied Statistics*, 34(8) 997-1009.
57. Lee, S.Y., Poon, W.Y. & Song, X.Y. (2007). Bayesian analysis of factor model with finance application. *Quantitative Finance*, 7, 343-356.
58. Tang, M.L. & Poon, W.Y. (2007). Statistical inference for equivalence trials with ordinal responses: A latent normal distribution approach. *Computational Statistics and Data Analysis*, 51, 5918-5926.
59. Poon, W.Y. (2007). The Analysis of Structural Equation Model with Ranking Data using Mx. *Latent Variable and Related Models*. S.Y. Lee (eds), 189-207, Elsevier.
60. Yiu C.F. & Poon, W.Y. (2008). Estimating the polychoric correlation from misclassified data. *British Journal of Mathematical and Statistical Psychology*, 61, 49-74.
61. Xu, L, Poon, W.Y. & Lee, S.Y. (2008). Influence analysis for the factor analysis model with ranking data. *British Journal of Mathematical and Statistical Psychology*, 61, 133-161.
62. Bai, Y. & Poon, W.Y. (2009). Using Mx to Analyze Cross-Level Effects in Two-Level Structural Equation Models. *Structural Equation Modeling: A Multidisciplinary Journal*, 16.1, 163-178.
63. Poon, W.Y., McNaught, C, Lam, P. & Kwan, H.S. (2009). Improving assessment methods in university science education with negotiated self- and peer-assessment. *Journal of Assessment in Education: Principles, Policy and Practice*, 16:3, 331-346.
64. Poon, W.Y. & Xu, L. (2009). On the modeling and estimation of attribute rankings with ties in the Thurstonian framework. *British Journal of Mathematical and Statistical Psychology*, 62, 507-527.
65. Poon, W.Y. & Wang, H.B. (2010). Analysis of ordinal categorical data with misclassification. *British Journal of Mathematical and Statistical Psychology*, 63, 17-42.
66. Poon, W.Y. & Wang, H.B. (2010). Analysis of two-level structural equation model with missing data. *Sociological Methods and Research*, 39, 25-55.
67. Poon, W.Y. & Wang, H.B. (2010). Bayesian analysis of multivariate probit models with surrogate outcome data. *Psychometrika*, 75, 498-520.
68. Tang, M.L., Poon, W.Y., Ling, L., Liao, Y. & Chui, H.W. (2011). Approximate unconditional test procedure for comparing two ordered multinomials. *Computational Statistics and Data Analysis*, 55.2 (February), 955-963.
69. Lu, T.Y., Poon, W.Y. & Tsang, Y.F. (2011). Latent growth curve modeling for longitudinal ordinal responses with applications. *Computational Statistics and Data Analysis*, 55.3, 1488-1497.
70. Li, H.Q, Tang, M.L. & Poon, W.Y., Tang N.S. (2011). Confidence intervals for difference between two Poisson rates. *Communications in Statistics, Simulation and Computation*, 40.9 (October), 1478-1493.

71. Tang, M.L., Qiu, S.F., Poon, W.Y. & Tang, N.S. (2012). Test procedures for disease prevalence with partially validated data. *Journal of Biopharmaceutical Statistics*, 22, 368-386.
72. Tang, M.L., Qiu, S.F. & Poon, W.Y. (2012). Confidence interval construction for disease prevalence based on partial validation series, *Computational Statistics and Data Analysis*, 56, 1200-1220.
73. Poon, W.Y. & Wang, H.B. (2012). Latent variable models with ordinal categorical covariates. *Statistics and Computing*, 22, 5, 1135-1154.
74. Tang, M.L., Qiu, S.F. & Poon, W.Y. (2012). Comparison of disease prevalence in two populations in presence of misclassification. *Biometrical Journal*, 54.6, 786-807.
75. Lin, Y, Cheung, S.H., Poon, W.Y., & Lu, T.Y. (2013) Pairwise comparison with ordered categorical data. *Statistics in Medicine*, 32, 3192-3205.
76. Poon, W.Y & Wang, H.B. (2013). Bayesian Analysis of Generalized Partially Linear Single-Index Models. *Computational Statistics and Data Analysis*, 68, 251-261.
77. Lu, T.Y., Poon, W.Y. & Cheung, S.H. (2014). A unified framework for the comparison of treatments with ordinal responses. *Psychometrika*, 79, 605-620.
78. Lin, YQ, Kwong, K.S., Cheung, S.H., and Poon, W.Y. (2014) Step-up testing procedure for multiple comparisons with a control for a latent variable models with ordered categorical responses. *Statistics in Medicine*, 33, 3629-3638.
79. Poon, W.Y., and Wang, H.B. (2014). Multivariate partially linear single-index models: Bayesian analysis. *Journal of Nonparametric Statistics*, 26 (4), 755-768.
80. Poon, W.Y., Qiu, S.F., and Tang, M.L. (2015). Confidence interval construction for the Youden index based on partially validated series. *Computational Statistics and Data Analysis*, 84, 116-134.
81. Lu, T.Y., Poon, W.Y. & Cheung, S.H. (2015) Multiple comparisons with a control for a latent variable model with ordered categorical responses. *Statistical Methods in Medical Research: An International Review Journal*. 24(6) 949-967.
82. Qiu, S.F., Poon, W.Y. & Tang, M.L. (2016). Sample size determination for disease prevalence studies with partially validated data. *Statistical Methods in Medical Research: An International Review Journal*, 25(1), 37-63.
83. Qiu, S.F., Poon, W.Y. and Tang, M.L (2016). Confidence intervals for proportion difference from two independent partially validated series. *Statistical Methods in Medical Research: An International Review Journal*. 25(5), 2250-2273.
84. Lu, T.Y., Poon, W.Y. & Cheung, S.H. (2016) Comparison of two treatments with skewed ordinal responses. *Statistics in Medicine*, 35, 189-201.
85. Qiu, S.F., Poon, W.Y. & Tang, M.L. (2016). Confidence intervals for an ordinal effect size measure based on partially validated series. *Computational Statistics and Data Analysis*, 103, 170-192.
86. Lu, T.Y., Poon, W.Y., & Cheung, S.H. (2016). Multiple comparisons of treatments with skewed ordinal responses. *Computational Statistics and Data Analysis*, 104, 223-232.
87. Yang, P., Cheung S.H., and Poon, W.Y. (2017). Multiple comparisons with two controls for ordered categorical responses. *Journal of Biopharmaceutical Statistics*, 27:1, 111-123, DOI:10.1080/10543406.2016.1148707.

Book:

Poon, Y.S. & Poon, W.Y. (2012) *Application of Elementary Differential Geometry to Influence Analysis*. Higher Education Press, Beijing; International Press, Boston.