

List of Publications

Journal papers *: corresponding author

1. **Shen Chung-Wei**, Yang Wen-Jia, Chien Li-Chu* (2026). Distribution-free model selection of marginal mean regression and association structure for incomplete longitudinal ordinal data under the proportional odds assumption. *Journal of Statistical Computation and Simulation* (Accepted)
2. **Shen Chung-Wei**, Hsu Bu-Ren, Hsu Chia-Ming, Chen Chun Shu* (2026). Efficient estimation for flexible spatial zero-inflated models with environmental applications. *Stochastic Environmental Research and Risk Assessment*. **40**: 143.
3. **Shen Chung-Wei***, Shen Yu-Chin (2025). Estimation and selection for Spatio Temporal zero-inflated count models. *Journal of the Chinese Statistical Association*, **63**: 132–166.
4. **Shen Chung-Wei**, Chen Chun Shu* (2024). Estimation and selection for spatial zero-inflated count models. *Environmetrics*. **35**, 4, e2847.2.
5. Chien Li-Chu, Chang Li-Ying, **Shen Chung-Wei***. (2023) A model selection criterion for clustered survival analysis with informative cluster size. *Pharmaceutical Statistics*, **22**: 79-95.
6. Chen Chun Shu, **Shen Chung-Wei***. (2022) Distribution-free model selection for longitudinal zero inflated count data with missing responses and covariates. *Statistics in medicine*, **41**: 3180-3198.
7. **Shen Chung-Wei**, Chen Yi-Hau*, Chen Chun Shu* (2021) Distribution-free regression model selection with a nested spatial correlation structure. *Spatial Statistics*, **41**: 100476.
8. Chen Chun Shu, **Shen Chung-Wei***. (2018) Model selection based on resampling approaches for cluster longitudinal data with missingness in outcomes. *Statistics in medicine*, **37**: 2982-2997.
9. **Shen Chung-Wei**, Chen Yi-Hau*. (2018) Model selection for semiparametric marginal mean regression accounting for within-cluster subsampling variability and informative cluster size. *Biometrics*, **74**: 934-943.
10. **Shen Chung-Wei**, Chen Yi-Hau* (2018) Joint model selection of marginal mean regression and correlation structure for longitudinal data with missing outcome and covariates. *Biometrical Journal*, **60**: 20-33.
11. **Shen, Chung-Wei***, Chen, Yi-Hau (2015) Model Selection for Marginal regression analysis of longitudinal data with missing observations and covariate measurement error. *Biostatistics*, **16**: 740-753.

12. **Shen, Chung-Wei**; Chen Yi-Hau* (2013) Model Selection of Generalized Estimating Equations with Multiply Imputed Longitudinal Data. *Biometrical Journal*, **55**: 899-911.
13. **Shen, Chung-Wei**; Chen, Yi-Hau* (2012) Model Selection for Generalized Estimating Equations Accommodating Drop-out Missingness. *Biometrics*, **68**: 1046–1054.
14. **Shen, Chung-Wei**; Tsou, Tsung-Shan*; N. Balakrishnan (2011) Robust Likelihood Inference for Regression Parameters In Partially-Linear Models. *Computational Statistics & Data Analysis*, **55**: 1696-1714.
15. Tsou, Tsung-Shan*; **Shen, Chung-Wei** (2008) Parametric robust inferences for correlated ordinal data. *Statistics in medicine*, **27**: 3550-3562.

Conference paper

Shen Chung Wei, Tsou Tsung-Shan* (2018) Robust Likelihood Inference for Regression Parameters in Generalized Partially Linear Models for Count Data. *International Conference on Robust Statistics*, Leuven –Belgium.

Grants

- (1) Model Selection for Longitudinal Studies with Missing Responses and Covariate Measurement error. NSC 102-2118-M-194 -004-MY2. Project Period: October 1, 2013- October 31, 2015. Principal investigator.
- (2) Robust Likelihood Inference for Regression Parameters in Generalized Partially Linear Models for Count Data. Most 104-2118-M-194-002. Project Period: Aug 1, 2015- October 31, 2016. Principal investigator.
- (3) Model Selection for marginal regression analysis of Incomplete Longitudinal Response or Covariates Data. Most 105-2118-M-194-002-MY2. Project Period: Aug 1, 2016- October 31, 2018. Principal investigator.
- (4) Model Selection Based on Resampling Approaches for Longitudinal Data. Most 107-2118-M-194-001-MY2. Project Period: Aug 1, 2018- October 31, 2020. Principal investigator.
- (5) Model Selection for marginal regression analysis of Spatial Data Most 109-2118-M-194-001-MY2. Project Period: Aug 1, 2020- October 31, 2022. Principal investigator.
- (6) Application of semi-parametric likelihood function in disease propagation model: estimation method for correlated zero inflated count data Most 111-2118-M-194-002-MY2. Project Period: Aug 1, 2022- October 31, 2024. Principal investigator.
- (7) Joint model selection of marginal mean regression and correlation

structure for ordinal longitudinal data with missing outcome and covariates Most 113-2118-M-194-002-MY2. Project Period: Aug 1, 2024-October 31, 2026. Principal investigator.

- (8) Semiparametric Inference for Correlated Data Comprising Multiple Groups. Most 115-2118-M-194-002-MY2. Project Period: Aug 1, 2026-October 31, 2028. Principal investigator.