

## **Chen, Chyong-Mei 陳瓊梅**

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### **Education**

Ph.D., Graduate Institute of Epidemiology, National Taiwan University,  
2000.9~2004.6  
M.A., Institute of Statistics, National Tsing Hua University, 1996.9~1999.6  
B.S., Department of Mathematics, National Taiwan University, 1992.9~1996.6

### **Research Interest**

Survival analysis, Biostatistics

### **Experience**

|                 |                                                                                              |
|-----------------|----------------------------------------------------------------------------------------------|
| 08/2004-07/2008 | Assistant Professor, Department of Applied Mathematics, Providence University                |
| 08/2008-07/2013 | Assistant Professor, Department of Statistics and Informatics Science, Providence University |
| 08/2013-07/2016 | Associate Professor, Department of Statistics and Informatics Science, Providence University |
| 08/2016-07/2020 | Associate Professor, Institute of Public Health, National, Yang-Ming University              |
| 08/2020-present | Professor, Institute of Public Health, National, Yang-Ming University                        |

### **Main courses taught**

Mathematical Statistics  
Survival Analysis  
Biostatistics

### **Projects/grants**

1. The statistical analysis of multivariate current status data with informative censoring (2012/08/01 ~ 2013/07/31, NSC 101-2118-M-126 -001)
2. Statistical analysis of multivariate recurrent event data in the presence of a dependent terminal event (2013/08/01 ~ 2014/07/31, NSC 102-2118-M-126 -001)
3. The statistical analysis of failure time data in the presence of informative interval censoring (2014/08/01 ~ 2015/07/31, MOST 103-2118-M-126 -001)
4. The statistical analysis for longitudinal data with a dependent terminal event (2015/08/01 ~ 2016/07/31, MOST 104-2118-M-126-002)

5. Semiparametric transformation model for interval-censored survival data with longitudinal covariates (2016/08/01 ~ 2017/07/31, MOST 105-2118-M-010-001)
6. Statistical analysis of semiparametric transformation model for left-truncated and interval-censored data (2017/08/01 ~ 2018/07/31, MOST 106-2118-M-010-001)
7. Analysis of Interval-censored Survival Data with Dependent Examination times (2018/08/01 ~ 2019/07/31, MOST 107-2118-M-010-001)
8. The statistical inference for length-biased and interval-censored data in the presence of cure rate (2019/08/01 ~ 2020/07/31, MOST 108-2118-M-010-001)
9. Nonparametric and semiparametric statistical inference for cure model analysis with competing risks data (2020/08/01 ~ 2022/07/31, MOST 109-2118-M-010 -001 -MY2)

#### **Publication (\*corresponding author)**

1. Huang, Chen-Nan; Jou, Shr-Chi\*; Chen, Chyong-Mei. 2007. Predictors among drug offenders in Cox's proportional hazard model with a focus on the interaction between gender and class of drugs Used. *Law Enforcement Review* **3**, 23-41.
2. Chien, Li-Ren; Buehre, Daniel J.; Yang, Chin-Yi\*; Liao, Checchen; Chen, Chyong-Mei. 2008. What about teaching learners in accordance of their aptitude? a study based on DICE TDD system in learning to programming. *Special Issue of International Journal of the Computer, the Internet and Management* **16**, 16.1-16.11.
3. 陳瓊梅, 黃徵男\*, 呂鴻廷, 2009. 利用地理資訊系統 (Geographic Information System) 分析藥物濫用者個別及社區變項對再犯率的影響, *犯罪、刑罰與矯正研究* **1**, 1-18.
4. 陳瓊梅\*, 黃徵男, 2010. Spatial analysis of the residence of drug abusers in Taipei City, *Journal of Crime, Punishment and Corrections* **2**, 1-11.
5. Hsu, H. F.\*, Chen, C.-M., Chen, S.-J. and Jou, S.-C. 2010. A pilot study of the national survey of drug treatment institutions in Taiwan. *Crime and Criminal Justice International* **14**, 23-47.
6. Chen, Chyong-Mei\*; Yu, Chang-Yung. 2012. A two-stage estimation in the Clayton-Oakes model with marginal linear transformation models for multivariate failure time data. *Lifetime Data Analysis* **18**, 94-115.
7. Chen, Chyong-Mei\*; Lu, Tai-Fang C. 2012. Marginal analysis of multivariate failure time data with a surviving fraction based on semiparametric transformation cure models. *Computational Statistics and Data Analysis* **56**, 645-655.
8. Chen, Chyong-Mei\*; Lu, Tai-Fang C.; Chen, Man-Hua; Hsu, Chao-Min, 2012. Semiparametric transformation models for current status data with informative censoring. *Biometrical Journal* **54**, 641-656.
9. Chen, Chyong-Mei\*; Lu, Tai-Fang C.; Hsu, Chao-Min, 2013. Association estimation for clustered failure time data with a cure fraction. *Computational Statistics and Data Analysis* **57**, 210-222.
10. Weng, Shuo-Chun; Tarng, Der-Cherng; Chen, Chyong-Mei; Cheng, Chi-Hung; Wu, Ming-Ju; Chen, Cheng-Hsu; Yu, Tung-Min; Shu, Kuo-Hsiung\*, 2014. Estimated glomerular filtration rate decline is a better risk factor for outcomes of systemic disease-related nephropathy than for

outcomes of primary renal diseases. *PLoS ONE* **9**, e92881.

11. Chen, Chyong-Mei; Wei, James Cheng-Chung; Hsu, Chao-Min\*; Lee, Ming-Yung, 2014. Regression analysis of multivariate current status data with dependent censoring: application to ankylosing spondylitis data. *Statistics in Medicine* **33**, 772-785.
12. Chen, Chyong-Mei\*; Chuang, Ya-Wen and Shen, Pao-sheng, 2015. Two-stage estimation for multivariate recurrent event data with a dependent terminal event. *Biometrical Journal* **57**, 215-233.
13. Chen, Chyong-Mei; Shen, Pao-sheng\*; Chuang and Ya-Wen, 2016. The partly Aalen's model for recurrent event data with a dependent terminal Event. *Statistics in Medicine*, 35, 268-281.
14. Chen, Chyong-Mei\* and Chen, Chen-Hsin. 2016. Heteroscedastic transformation cure regression models. *Statistics in Medicine* **35**, 2359-2376.
15. Lu, Tai-Fang; Hsu, Chao-Min; Shu, Kuo-Hsiung; Weng, Shuo-Chun; Chen, Chyong-Mei\*. 2016. Joint analysis of longitudinal data and competing terminal events in the presence of dependent observation times with application to chronic kidney disease. *Journal of Applied Statistics* **43**, 2922–2940.
16. Huang, Chia-Hui; Li, Bowen; Chen, Chyong-Mei; Wang, Weijing; Chen, Yi-Hau\*. 2017. Subdistribution Regression for Recurrent Events Under Competing Risks: with Application to Shunt Thrombosis Study in Dialysis Patients. *Statistics in Biosciences* **9**, 339-356.
17. Chen, Chyong-Mei; Shen, Pao-sheng\*; James Cheng-Chung Wei and Lichi Lin. 2017. A Semiparametric mixture cure survival model for left-truncated and right-censored data. *Biometrical Journal* **59**, 270–290.
18. Chyong-Mei Chen\* and Pao-Sheng Shen. 2017. Semiparametric Regression Analysis of Failure Time Data with Dependent Interval Censoring. *Statistics in Medicine* **36**, 3398-3411
19. Chyong-Mei Chen and Pao-Sheng Shen\*. 2018. Conditional maximum likelihood Estimation in semiparametric transformation model with LTRC data. *Lifetime Data Analysis* **24**, 250-272.
20. Chyong-Mei Chen\*; Pao-sheng Shen and Yi-Kuan Tseng. 2018. Semiparametric transformation joint models for longitudinal covariates and interval-censored failure time. *Computational Statistics and Data Analysis* **128**, 116-127.
21. Pao-Sheng Shen, Chyong-Mei Chen. 2018. Aalen's linear model for doubly censored data. *Statistics*, **52** 1328–1343.
22. Chyong-Mei Chen, Pao-sheng Shen\*, Yi Liu. 2019. On semiparametric transformation model with LTRC data: pseudo likelihood approach. *Statistical Papers* (Accepted, <https://doi.org/10.1007/s00362-018-01080-w>).
23. Chyong-Mei Chen\*, Pao-sheng Shen, Wei-Lun Huang. 2019. Semiparametric transformation models for interval-censored data in the presence of a cure fraction. *Biometrical Journal* **61**, 203–215.
24. Pao-sheng Shen, Hsin-Jen Chen, Wen-Harn Pan, Chyong-Mei Chen\*. 2019. Semiparametric regression analysis for left-truncated and interval-censored data without or with a cure fraction.

*Computational Statistics and Data Analysis* **140** 74-87.

25. Shuo-Chun Weng, Yin-Chu Chang, Chyong-Mei Chen\*. 2020. Joint analysis of longitudinal and interval-censored failure time data. *Communications in Statistics - Simulation and Computation* (Accepted, DOI: 10.1080/03610918.2020.1770284)
26. Chyong-Mei Chen\*, Pao-sheng Shen, Chih-Ching Lin, Chih-Cheng Wu. 2020. Semiparametric mixture cure model analysis with competing risks data: application to vascular access thrombosis data. *Statistics in Medicine* (Accepted, DOI: 10.1002/sim.8711)