Chi-Chung Wen (温啟仲)

Person Information

Professor, Institute of Public Health, National Yang Ming Chiao Tung University
E-mail: chichung.wen@gmail.com
Address: No. 155, Sec. 2, Linong St., Beitou Dist., Taipei City 112, Taiwan

Research Interest

Biostatistics，Survival Analysis，Data Science

Education

Ph.D. National Central Univ., Taiwan. Mathematics (2001)
M.S. Fu Jen University, Taiwan. Mathematics (1998)
B.A. Fu Jen University, Taiwan. Mathematics (1996)

Present Appointment

Professor, Institute of Public Health, National Yang Ming Chiao Tung University (2025-)
Professor, Department of Mathematics, Tamkang University (2014-25)
Chairman, Department of Mathematics, Tamkang University (2014-16)
Associate professor, Department of Mathematics, Tamkang University (2014-18)
Assistant professor, Department of Mathematics, Tamkang University (2006-10)
Research associate, National Health Research Institutes (2005-06)
Postdoc, National Health Research Institutes (2001-05)

Professional Experiences

Executive Secretary, The Chinese Institute of Probability and Statistics (CIPS) (2025-)
Associate Editor, Tamkang Journal of Mathematics (2020-)
Advisory member, Statistics, National Science and Technology Council (NSTC) (2020-21)
Review committee co-convener, Statistics, NSTC (2018)
Review committee member, Statistics, NSTC (2016-18)
Director, CIPS (2016-2025)
Associate Editor, Journal of Applied Science and Engineering (2013-)

Honors and Awards

College Student Research Creativity Adviser Award, MOST (2019) 科技部大專生計畫 研究創作獎指導
Excellent Young Scholar Project Award, MOST (2014-16) 國科會優秀年輕學者研究計畫
Elected Member of the Phi Tau Phi Scholastic Honor Society of the ROC (1996)

淡江獲獎

- Exemplary performance in research projects 專題研究計畫案績優(112 學年度)

- Exemplary performance in research projects 專題研究計畫案績優(111 學年度)
- Outstanding achievements in promoting thematic research 執行研究計畫績效卓越 (111 學年度)
- Exemplary performance in research projects 專題研究計畫案績優(110 學年度)
- Excellence in teaching 教學優良教師(106 學年度)
- Outstanding achievements in promoting thematic research 推展專題研究成效卓著 (105 學年)
- Outstanding teaching material 教學優良教材(101 學年度)
- Outstanding performance in the TKU teacher evaluation 教師評鑑傑出獎(100 學年度)
- Outstanding achievements in promoting thematic research 推展專題研究成效卓著 (100 學年度)
- Excellent mentor 優良導師(98 學年度)
- Excellence in teaching 教學優良教師(97 學年度)

Publications

Fundamental research articles

1. Wen CC*, Chen YH (2025) Regression analysis of randomized response event time data. Statistica Sinica, 35: 25-48.

2. Wen CC, Chen YH* (2024) Conditional score approach to errors-in-variables competing risks data in discrete time. Statistics in Medicine 43 3503-23.

3. Wen CC, Chen YH* (2023) Analyzing recurrent and nonrecurrent terminal events data in discrete time. Biometrical Journal, DOI: 10.1002/bimj.202100361.

4. Hsu CY, Wen CC, Chen YH* (2021) Quantile function regression analysis for interval censored data, with application to salary survey data. Japanese Journal of Statistics and Data Science 4 999-1018.

5. Wen CC, Chen YH* (2020) Discrete time survival data with longitudinal covariates. Statistics in Medicine 39 4372-85.

6. Wen CC, Chen YH*, Tseng CH (2020) Joint analysis of panel count and interval-censored data using distribution-free frailty analysis. Biometrical Journal 62 1164-75.

7. Wen CC, Chen YH* (2019) Sample size determination for semiparametric analysis of current status data. Statistical Methods in Medical Research 28 2247-57.

8. Wen CC, Chen YH* (2018) Pseudo and conditional score approach to joint analysis of current count and current status data. Biometrics 74 1223-31.

9. Wen CC, Chen YH* (2016) Joint Analysis of Current Count and Current Status Data. Journal of Multivariate Analysis 143 153-64.

10. Huang YH*, Wen CC, Hsu YH (2015) The extensively corrected score for measurement error models. Scandinavian Journal of Statistics 42 911-24.

11. Wen CC*, Huang SYH, Wu YJ (2015) A functional inference for multivariate current status data with mismeasured covariate. Lifetime Data Analysis 21 379-96.

12. Wen CC*, Chen YH (2014) Functional inference for interval-censored data in proportional odds model with covariate measurement error. Statistica Sinica 24 1301-17.

13. Wen CC, Chen YH* (2014) Semiparametric analysis of incomplete current status outcome data under transformation models. Biometrics 70 335-45.

14. Wen CC, Chen YH* (2013) Assessing age-at-onset risk factors with incomplete covariate current status data under proportional odds models. Statistics in Medicine 32 2001-12.

15. Wen CC*, Chen YH (2013) A frailty model approach for regression analysis of bivariate interval-censored survival data. Statistica Sinica 23 383-408.

16. Wen CC, Chen YH* (2012) Conditional score approach to errors-in-variable current status data under the proportional odds model. Scandinavian Journal of Statistics 39 635-44.

17. Wen CC* (2012) Cox regression for mixed case interval-censored data with covariate errors. Lifetime Data Analysis 18 321-38.

18. Wen CC, Lin CT* (2011) Analysis of current status data with missing covariates. Biometrics 67 760-9.

19. Wen CC*, Huang SYH, Chen YH (2011) Cox regression for current status data with mismeasured covariates. The Canadian Journal of Statistics 39 73-88.

20. Wen CC, Chen YH* (2011) Nonparametric maximum likelihood analysis of clustered current status data with the gamma frailty Cox model. Computational Statistics and Data Analysis 55 1053-60.

21. Wen CC* (2010) Semiparametric maximum likelihood estimation in Cox proportional hazards model with covariate measurement errors. Metrika 72 199-217.

22. Chien LC, Chang IS, Jiang SS, Gupta PK, Wen CC, Wu YJ, Hsiung CA* (2009) Profiling time course expression of virus genes-an illustration of Bayesian inference under shape restrictions. Annals of Applied Statistics 3 1542-65.

23. Chang IS*, Hsiung CA, Wen CC, Wu YJ, Yang CC (2007) Non-parametric maximum-likelihood estimation in a semiparametric mixture model for competing risks data. Scandinavian Journal of Statistics 34 870-95.

24. Chang IS*, Wen CC, Wu YJ (2007) A profile likelihood theory for the correlated gamma-frailty model with current status family data. Statistica Sinica 17 1023-46.

25. Chang IS*, Wen CC, Wu YJ, Yang CC (2007) A fast algorithm for the nonparametric maximum likelihood estimate in the Cox-Gene model. Statistica Sinica 17 841-56.

26. Wen CC, Wu YJ, Huang YH, Chen WC, Liu SC, Jiang SS, Juang JL, Lin CY, Fang WT, Hsiung CA, Chang IS (2006) A Bayes regression approach to array-CGH data. Statistical Applications in Genetics and Molecular Biology 5 1-20.

27. Chang IS*, Hsiung CA, Wang MC, Wen CC (2005) An asymptotic theory for the nonparametric maximum likelihood estimator in the Cox gene model. Bernoulli 11 863-92.

Applied research articles

1. Lee IT, Huang CY, Su WL, Truong TM, Wen CC, Wang BC*, Chen YH* (2024) Protective Effects of Roselle Aqueous Extracts against UV-Induced Damage in Zebrafish Fins. Fishes 9 199. doi.org/10.3390/fishes9060199.

2. Huang HT, Huang CY, Lee CJ, Sun BJ, Jhang ZW, Wen CC, Wang YH, Li TS, Chern CY, Chen YH (2024) The angiogenesis-modulating effects of coumarin-derivatives. Comparative Biochemistry and Physiology Part C: Toxicology and Pharmacology. DOI: 10.1016/j.cbpc.2024.109862.

3. Tsai JN, Ding YJ, Lo KC, Lu PH, Chang CF, Wen CC, Wang BC*, Yang LL*, Chen YH* (2021) Protective role of Bu-Zhong-Yi-Qi decoction on aristolochic acid-intoxicated zebrafish. Tropical Journal of Pharmaceutical Research 20 605-11.

4. Chen YH*, Chen YJ, Chou CY, Wen CC, Cheng CC* (2019) UV-protective activities of pineapple leaf extract in zebrafish embryos. Research on Chemical Intermediates 45 65-75.

5. Tsai JN, Sun CY, Ding YJ, Wang YH, Lo KC, Wen CC, Lin JW, Chang CF, Hsu LS, Chen HM, Fong TH*, Chen YH* (2018) Embryonic exposure to 4-methylimidazole

leads to zebrafish myofibril misalignment. Environmental Toxicology 33 1321-28.

6. Ding YJ, Wang BC, Wen CC, Sun CY, Lee HH, Lee FP, Yang LL*, Chen YH* (2015) Evaluation of the teratogenic effects of three traditional Chinese medicines, Si Jun Zi Tang, Liu Jun Zi Tang and Shenling Baizhu San, during zebrafish pronephros development. J. Toxicol. Pathol 28 141-49.

7. Wu HJ, Fong TH, Chen SL, Wei JC, Wang IJ, Wen CC, Chang CY, Chen XG, Chen WY, Chen HM, Horng JL, Wang YH*, Chen YH* (2015) Perturbation of cytosolic calcium by 2-aminoethoxydiphenyl borate and caffeine affects zebrafish myofibril alignment. J. Appl. Toxicol. 35 287-94.

8. Ding YJ, Sun CY, Wen CC, Chen YH* (2015) Nephroprotective role of resveratrol and ursolic acid in aristolochic acid intoxicated zebrafish. Toxins 7 97-109.

9. Cheng CC*, Chou CY, Chang YC, Wang HW, Wen CC, Chen YH* (2014) Protective role of comfrey leave extracts on UV-induced zebrafish fin damage. J. Toxicol. Pathol. 27 115-21.

10. Chen YH*, Lee YT, Wen CC, Chen YC, Chen YJ* (2014) Modeling pegylated liposomal doxorubicin-induced hand-foot syndrome and intestinal mucositis in zebrafish. OncoTargets Therapy 7 1169-75.

11. Chen XG, Wang YH, Wen CC, Chen YH* (2014) Overdose of D-serine induces movement disorder and neuromuscular changes of zebrafish larvae. J. Toxicol. Pathol. 27 19-24.

12. Chen YH*, Wang WH, Wang YH, Lin ZY, Wen CC, Chern CY* (2013) Evaluation of the anti-inflammatory effect of chalcone and chalcone analogues in a zebrafish model. Molecules 18 2052-60.

13. Yeh CH, Liao YF, Chang CY, Tsai JN, Wang YH, Cheng CC, Wen CC, Chen YH* (2012t) Caffeine treatment disturbs the angiogenesis of zebrafish embryos. Drug and Chemical Toxicology, 35 361-5.

14. Chen YH*, Yang ZS, Wen CC, Chang YS, Wang PC, Hsiao CA, Shih TZ* (2012) Evaluation of the structure-activity relationship of flavonoids as antioxidants and toxicants of zebrafish larvae. Food Chemistry 134 717-24.

15. Tsai IT, Yang ZS, Lin ZY, Wen CC, Cheng CC, Chen YH* (2012) Flavone is efficient to protect zebrafish fins from UV-induced damage. Drug and Chemical Toxicology 35 341-46.

16. Chen YH, Tsai IT, Wen CC, Wang YH, Cheng CC, Hu SC, Chen YH* (2012) Fin reduction is a novel and unexpected teratogenic effect of amikacin-treated zebrafish embryos. Toxicology Mechanisms and Methods 22 151-8.

17. Liao YF, Chiou MC, Tsai JN, Wen CC, Wang YH, Cheng CC*, Chen YH* (2011) Resveratrol treatment attenuates the wound-induced inflammation in zebrafish larvae through the suppression of myeloperoxidase expression. Journal of Food and Drug Analysis 19 167-73.

18. Chen YH, Chang CY, Wang YH, Wen CC, Chen YC, Hu SC, Yu DS, Chen YH* (2011) Embryonic exposure to diclofenac disturbs actin organization and leads to myofibril misalignment. Birth Defects Research Part B: Developmental and Reproductive Toxicology 92 139-47.

19. Chen YH, Wen CC, Lin CY, Chou CY, Yang ZS, Wang YH (2011) UV-induced fin damage in zebrafish as a system for evaluating the chemopreventive potential of broccoli and cauliflower extracts. Toxicology Mechanisms and Methods 21 63-9.

20. Peng HC, Wang YH, Wen CC, Wang WH, Cheng CC, Chen YH (2010) Nephrotoxicity assessments of acetaminophen during zebrafish embryogenesis. Comparative Biochemistry and Physiology, Part C 151 480-86.

21. Wang YH, Cheng CC, Lee WJ, Chiou ML, Pai CW, Wen CC, Chen WL, Chen YH (2009 Nov) A novel phenotype-based approach for systematically screening antiproliferation metallodrugs. Chemico-Biological Interactions 182 84-91.

22. Wang YH#, Wen CC#, Yang ZS, Cheng CC, Tsai JN, Ku CC, Wu HJ, Chen YH (2009) Development of a whole-organism model to screen new compounds for sun protection. Marine Biotechnology 11 419-29 (#equal contribution)

23. Chen YH, Huang YH, Wen CC, Wang YH, Chen WL, Chen LC, Tsay HJ (2008) Movement disorder and neuromuscular change in zebrafish embryos after exposure to caffeine. Neurotoxicology and Teratology 30 440-47.

24. Jiang SS, Chang IS, Huang LW, Chen PC, Wen CC, Liu SC, Chien LC, Lin CY, Hsiung CA, Juang JL (2006) Temporal transcription program of recombinant autographa californica multiple nucleopolyhedrosis virus. Journal of Virology 80 8989–99.

25. Chen GW, Hsiung CA, Chyn JL, Shih SR, Wen CC, Chang IS (2005) Revealing molecular targets for Enterovirus type 71 detection by profile hidden Markov models. Virus Genes 31 337-47.

26. Su WP, Wen CC, Hsiung CA, Su IJ, Cheng AL, Chang MC, Tsao CJ, Kao WY, Uen WC, Hsu C, Hsu CH, Lu YS, Tien HF, Chao TY, Chen LT, Wang-Peng J, Chen PJ (2005) Long-term hepatic consequences of chemotherapy-related HBV reactivation in lymphoma patients. World Journal of Gastroenterology 11 5283-88.

27. Olivier M, Hsiung CA, Chuang LM, Ho LT, Ting CT, Bustos VI, Lee TM, Witte AD, Chen YDI, Olshen R, Rodrigue B, Wen CC, Cox DR (2004) Single nucleotide polymorphisms in protein tyrosine phosphatase 1β(PTPN1) are associated with essential hypertension and obesity. Human Molecular Genetics 13 1885-92.

Book Chapter

1. Chang IS, Chien LC, Hsiung CA, Wen CC, Wu YJ. (2007) Shape restricted regression with random Bernstein polynomials. IMS Lecture Notes – Monograph Series, Complex Datasets and Inverse Problems: Tomography, Networks and Beyond 54 187-202.

2. Chang IS, Hsiung CA, Wen CC, Wu YJ. (2006). A note on the consistency in Bayesian shape-restricted regression with random Bernstein polynomials. 245–53. In C. H. Zhang, Z. Ying, and C. A. Hsiung (ed.), Random walk, sequential analysis and related topics: a festschrift in honor of Yuan-Shih Chow. World Scientific, Singapore.