

Yu-Jen Cheng

CONTACT INFORMATION	Professor Institute of Statistics National Tsing-Hua University Room 817, General Building III Hsin-Chu, Taiwan 300044	<i>Phone:</i> 886-3-5715131-33189 <i>Fax:</i> 886-3-5728318 <i>E-mail:</i> ycheng@stat.nthu.edu.tw
RESEARCH INTERESTS	Biased Sampling; Causal Inference; Information Synthesis; Measurement Error; Recurrent events; Statistical Learning; Survival analysis	
EDUCATION	- Ph.D., Department of Biostatistics, Johns Hopkins University, May 2009	
PROFESSIONAL EXPERIENCE	- Professor, Institute of Statistics, National Tsing-Hua University, August 2023 to Present - Associate Professor, Institute of Statistics, National Tsing-Hua University, August 2014 to July 2023 - Assistant Professor, Institute of Statistics, National Tsing-Hua University, August 2009 to July 2014	
AWARDS	- Project for Excellent Junior Research Investigators, Ministry of Science Technology (2021) - SIE Graduate Student Award, ASA Statistics in Epidemiology Section, 2009 - Distinguished Student Paper Award, International Biometric Society's Eastern North American Region (ENAR), 2009	
ACADEMIC ACTIVITIES	Journal Referee: - Biometrical Journal, Biometrics, Biometrika, Biostatistics, Computational Statistics & Data Analysis, Journal of Multivariate Analysis, Journal of Nonparametric Statistics, Journal of Statistical Planning and Inference, Journal of the American Statistical Association, Journal of the Royal Statistical Society: Series B, Journal of the Royal Statistical Society: Series C, Lifetime Data Analysis, Statistics in Medicine, Statistical Methodology, Statistics & Probability Letters, Scientific Reports, Statistica Sinica	
GRANT REVIEW SERVICES	- Ministry of Science and Technology Grant - Medical Research Council Grant - Israel Science Foundation	
PUBLICATIONS	† represents student author under Yu-Jen Cheng's supervision; * represents the corresponding author. 1. Yu-Jen Cheng* and Chang-Yu Tsai. Generalized Method of Moments in Analyzing Recurrent Events for Semiparametric Transformation Models with Informative Censoring. <i>Statistics in Medicine</i> , 2025. Accepted. 2. Jih-Chang Yu ^{†*} and Yu-Jen Cheng . Estimation and variable selection for semiparametric transformation models with length-biased survival data. <i>Lifetime Data</i>	

Analysis, 674-701, 2025.

3. Cheng-Han Yang[†] and **Yu-Jen Cheng***. A Model-Free Variable Screening Method for Optimal Treatment Regime with High-Dimensional Survival Data. *Biometrika*, 1369-1386, 2024.
4. **Yu-Jen Cheng***, Yen-Chun Liu[†], Chang-Yu Tsai, and Chiung-Yu Huang. Semiparametric Estimation of the Transformation Model by Leveraging External Aggregate Data in the Presence of Population Heterogeneity. *Biometrics*, 1996-2009, 2023.
5. Chien-Tong Lin[†], **Yu-Jen Cheng*** and Ching-Kang Ing. Greedy variable selection for high-dimensional Cox models. *Statistica Sinica*, 1697-1719, 2023.
6. **Yu-Jen Cheng***, Mei-Cheng Wang and Chang-Yu Tsai[†]. Estimations of the joint distribution of failure time and failure type with dependent truncation. *Biometrics*, 428-438, 2019.
7. Hsiang Yu[†], **Yu-Jen Cheng*** and Ching-Yun Wang. Methods for Multivariate Recurrent Event Data with Measurement Error and Informative Censoring. *Biometrics*, 966-976, 2018.
8. Hsiang Yu[†], **Yu-Jen Cheng*** and Ching-Yun Wang. Semiparametric Regression Estimation for Recurrent Event Data with Errors in Covariates under Informative Censoring. *The International Journal of Biostatistics*, Nov 1;12(2), 2016.
9. **Yu-Jen Cheng*** and Mei-Cheng Wang. Causal estimation using the semiparametric transformation models under prevalent sampling. *Biometrics*, 302-312, 2015.
10. **Yu-Jen Cheng*** and Chiung-Yu Huang. Combined estimating equation approaches for semiparametric transformation models with length-biased survival data. *Biometrics*, 608-618, 2014.
11. **Yu-Jen Cheng*** and Mei-Cheng Wang. Estimating propensity scores and causal survival functions using prevalent survival data. *Biometrics*, 707-716, 2012.
12. G. Nestadt*, C. Di, J. F. Samuels, **Yu-Jen Cheng**, O. J. Bienvenu, I. M. Reti, P. Costa, W. W. Eaton and K. Bandeen-Roche. Concordance between personality disorder assessment methods. *Psychological Medicine*, 657-667, 2012.
13. Irving M. Reti*, Jerry Z. Xu, Jason Yanofski, Jodi McKibben, Magdalena Uhart, **Yu-Jen Cheng**, Peter Zandi, Oscar J. Bienvenu, Jack Samuels, Virginia Willour, Laura Kasch-Semenza, Paul Costa, Karen Bandeen-Roche, William W. Eaton, Gerald Nestadt. Monoamine oxidase A regulates antisocial personality in whites with no history of physical abuse. *Comprehensive Psychiatry*, 52:188-194, 2011.
14. Veronica Rolim S Fernandes, Susan Cheng, **Yu-Jen Cheng**, Boaz Rosen, Sachin Agarwal, Robyn L McClelland, David A Bluemke, Joao A C Lima*. Racial and ethnic differences in subclinical myocardial function: the Multi-Ethnic Study of Atherosclerosis. *Heart*, 97:405-410, 2011.
15. **Yu-Jen Cheng*** and Ciprian M. Crainiceanu. Cox models with smooth functional effect of covariates measured with errors. *Journal of the American Statistical Association*, 104, 1144-1154, 2009.
16. Andrea Carlson Gielen*, Lara B McKenzie, Eileen M McDonald, Wendy C Shields, Mei-Cheng Wang, **Yu-Jen Cheng**, Nancy L Weaver, Allen R Walker. Using a computer kiosk to promote child safety: results of a randomized, controlled trial in an urban pediatric emergency department. *Pediatrics*, 2007 Aug; 120 (2):330-9.

ABSTRACT

1. Veronica R Fernandes, Sachin Agarwal, **Yu-Jen Cheng**, Ciprian M Crainiceanu, Robyn McClelland, David A Bluemke, Joao A Lima, *Race/Ethnic Relationship with Regional Myocardial Function in an Adult Asymptomatic Population for Cardiovascular Disease: A Tagged MRI Study of the MESA Cohort*, Circulation. 2006; 114:II.538-II.539
2. Veronica R Fernandes, Boaz D Rosen, Susan Cheng, **Yu-Jen Cheng**, Hossein Bahrami, Robyn L McClelland, Antoinette Gomes, David A Bluemke, Joao A Lima, *Diabetes Mellitus as a Predictor of Decreased Regional Myocardial Function in an Adult Population without Clinical Cardiovascular Disease: The Tagged MRI Follow-up Study of the Multi-Ethnic Study of Atherosclerosis (MESA)*, Circulation. 2007; 116:II.826

GRANT FUNDING

- 2023-2025 Improving the efficiency of estimation by synthesizing the external information in the presence of population heterogeneity (112-2118-M-007-004-MY2).Role: PI.
- 2021-2023 Statistical analysis for recurrent event data with informative censoring and time-dependent covariates (110-2628-M-007-003-MY2).Role: PI.
- 2020-2021 Methods for Estimating Causal Treatment Effects with Sampling Bias (109-2118-M-007-003).Role: PI.
- 2018-2020 Analysis of univariate and bivariate recurrent event data with informative censoring (107-2118-M-007-007-MY2).Role: PI.
- 2016-2018 Combined estimating equation approaches for semiparametric transformation cure models with prevalent survival data (MOST 105-2118-M-007-005-MY2). Role: PI.
- 2015-2016 Analyzing recurrent event and survival data with error-prone covariates under informative censoring (MOST 104-2118-M-007-002). Role: PI.
- 2014-2015 Competing Risks Models with Temporal Cause Probability for Prevalent Survival Data (MOST 103-2118-M-007-003). Role: PI.
- 2013-2014 Estimation on the semiparametric transformation models with length-biased data (MOST 102-2118-M-007-003).Role: PI.
- 2012-2013 Causal Estimation for Semiparametric Transformation Models with Dependent Truncated-Survival Data (MOST 101-2118-M-007-004).Role: PI.
- 2011-2012 Mixture Cure Model with Prevalent Sampling (MOST 100-2118-M-007-003).Role: PI.
- 2010-2011 Double-Robust Estimation and Stratification Analysis for Causal Inference with Truncated Survival Data (MOST 99-2118-M-007-003).Role: PI.
- 2009-2010 Marginal Causal Estimation for Truncated Survival Data (MOST 98-2118-M-007-003).Role: PI.

COMPUTING SKILLS

Splus/R

LANGUAGES

Chinese and English

PROFESSIONAL ACTIVITIES

- American Statistical Association (ASA)