Yu-Jen Cheng

CONTACT
INFORMATION

Associate Professor
Institute of Statistics
National Tsing-Hua University
Room 817, General Building III
Hsin-Chu,Taiwan 300

Phone: 886-3-5715131-33189
Fax: 886-3-5728318
E-mail:
ycheng@stat.nthu.edu.tw

RESEARCH
INTERESTS

Survival analysis, Biased samplings, Causal inference, Measurement error, Nonparametric statistics, Bayesian statistics, Longitudinal data analysis

EDUCATION

Ph.D., Department of Biostatistics, Johns Hopkins University, **May 2009**

PROFESSIONAL
EXPERIENCE

Associate Professor, Institute of Statistics, National Tsing-Hua University, **August 2014 to Present**

Assistant Professor, Institute of Statistics, National Tsing-Hua University, **August 2009 to July 2014**

AWARDS

Flexible Salary for Outstanding Faculty and Research Staff at National Tsing Hua University (2022, 2017-2020, 2015)
Project for Excellent Junior Research Investigators, Ministry of Science Technology (2021)
High Quality Research Award at National Tsing Hua University (2021)
Research Incentive, National Tsing Hua University (2012-2014, 2010)
Research Paper Publication Award, National Tsing Hua University (2013)
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
Statistical Methodology
Statistics & Probability Letters
Scientific Reports
Statistica Sinica

Ministry of Science and Technology Grant
Medical Research Council Grant
Israel Science Foundation

PUBLICATIONS

† represents student author under Yu-Jen Cheng's supervision; ∗ represents Yu-Jen Cheng as corresponding author.

1. **Yu-Jen Cheng***, Yen-Chun Liu†, Chang-Yu Tsai, and Chiung-Yu Huang (2022, Accepted). Semiparametric Estimation of the Transformation Model by Leveraging External Aggregate Data in the Presence of Population Heterogeneity. *Biometrics*. DOI: 10.1111/biom.13778.

2. Chien-Tong Lin†, **Yu-Jen Cheng*** and Ching-Kang Ing (2022, Accepted). Greedy variable selection for high-dimensional Cox models. *Statistica Sinica*. doi:10.5705/ss.202021.0265

3. **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.

4. 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.

5. 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.

6. **Yu-Jen Cheng*** and Mei-Cheng Wang. Causal estimation using the semiparametric transformation models under prevalent sampling. *Biometrics*, 302-312, 2015.

7. **Yu-Jen Cheng*** and Chiung-Yu Huang. Combined estimating equation approaches for semiparametric transformation models with length-biased survival data. *Biometrics*, 608-618, 2014.

8. **Yu-Jen Cheng*** and Mei-Cheng Wang. Estimating propensity scores and causal survival functions using prevalent survival data. *Biometrics*, 707-716, 2012.

9. 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.

10. 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.

11. 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.

12. **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.

13. 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

- 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 Analaysis 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)