# JO-YING HUNG

🎓 PhD Candidate

🏛 Department of Statistics, National Cheng Kung University

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## Education

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|---|---|
| 2015 - 2019 | **B.B.A. in Statistics (GPA: 4.00/4.3)** <br> National Cheng Kung University, Tainan, Taiwan. |
| 2019 - 2021 | **Master Student in Statistics** <br> National Cheng Kung University, Tainan, Taiwan. <br> **Received direct admission to the PhD Program in 2021.** |
| 2021 - Present | **PhD Student in Statistics (PhD Candidate since 2022)** <br> National Cheng Kung University, Tainan, Taiwan. |

## Research Interest

Survival Analysis, Medical Research, Biostatistics, Statistical Consulting

## Research Publications

### Journal Articles

1. C.Y. Yang, P.F. Su, **J.Y. Hung**, H.T. Ou, and S. Kuo (2020). Comparative predictive ability of visit-to-visit HbA1c variability measures for microvascular disease risk in type 2 diabetes. *Cardiovascular diabetology*, 19(1), 1-10.

2. Y.S. Hwang, P.F. Su, Y.L. Hsiao, W.H. Tsai, and **J.Y. Hung** (2020). Developing a Nomogram Model to Predict the Risk of Poor Chinese Handwriting in First Grade. *American Journal of Occupational Therapy*, 74(5), 7405205080p1-7405205080p8.

3. P.F. Su, C.C.K. Lin, **J.Y. Hung**, and J.S. Lee (2022). The Proper Use and Reporting of Survival Analysis and Cox Regression. *World Neurosurgery*, 161, 303-309.

4. Y.J. Chao, W.H. Lu, T.K. Liao, P.J. Su, C.J. Wang, C.H. Lai, **J.Y. Hung**, P.F. Su, and Y.S. Shan (2023). Feasibility of simultaneous development of laparoscopic and robotic pancreaticoduodenectomy. *Scientific reports*, 13(1), 6190.

5. Y.S. Hwang, Y.L. Hsiao, P.F. Su, **J.Y. Hung**, W.H. Tsai (2024). Kindergarten visual–perceptual and motor skills and behavioral traits predict first-grade Chinese handwriting legibility and speed. *American Journal of Occupational Therapy*, 78(1), 7801205170.

6. S.H. Tsai, **J.Y. Hung**, P.F. Su, C.H. Hsu, C.H. Yu, X.M. Liao, J.D. Wang, T.R. Hsiue, and C.-Zuei Chen (2024). Chronic obstructive pulmonary disease trajectory: Severe exacerbations and dynamic change in health-related quality of life. *BMJ Open Respiratory Research*, 11(1), e002037.

7. C.H. Yu, S.H. Tsai, **J.Y. Hung**, P.F. Su, C.H. Hsu, X.M. Liao, T.R. Hsiue, and C.Z. Chen (2024). Dynamic changes in quality of life in older patients with chronic obstructive pulmonary disease: a 7-year follow up. *Health and Quality of Life Outcomes*, 22 (1), 76.

8. A.R. Wu, S.Y. Hsieh, H.H. Chou, C.S. Lai, **J.Y. Hung**, B. Wang, and Y.S. Tsai (2025). Deep Learning-based Prediction of Mortality Using Brain Midline Shift and Clinical Information. *Heliyon*, 11(2).

## Accepted Articles

1. **J.Y. Hung**, J. Zhong, H.T. Ou, and P.F. Su (2025). Efficient estimation of the Cox model when incorporating the subgroup restricted mean survival time. *Journal of Biopharmaceutical Statistics*.

## Submitted Articles

1. X.M. Liao, C.H. Yu, S.H. Tsai, **J.Y. Hung**, P.F. Su, C.H. Hsu, T.R. Hsiue, and C.Z. Chen (2024+). Predictors of continuous and rapidly declined of quality of life among chronic obstructive pulmonary disease patients.

# Conferences and Workshops

1. **2022 YCU-NCKU Student Workshop on Data Science.**
   Location: National Cheng Kung University, Tainan, Taiwan. (March 21, 2022)
   Topic: Efficient estimation of the semi-parametric model incorporating with the auxiliary subgroup restricted mean survival information.

2. **6th International Conference on Econometrics and Statistics.**
   Location: Waseda University, Tokyo, Japan. (August 1-3 2023)
   Topic: Synthesizing auxiliary subgroup restricted mean survival information to obtain efficient estimation for Cox model.

3. **The 12th conference of the Asian Regional Section of the International Association for Statistical Computing (IASC-ARS).**
   Location: Macquarie University, Sydney, Australia. (December 6-8 2023)
   Topic: Integrating auxiliary subgroup restricted mean survival information to the Cox model when population heterogeneity exists.

# Skills

Languages    Mandarin, English (IELTS Overall: 8; TOEIC: 975)

Coding    R, LaTeX

# Awards and Scholarships

1. **Outstanding Doctoral Student Scholarship (2021/9-2024/8)**
   Provided by National Cheng Kung University.

2. **Scholarship for Elites (2020/12)**
   Provided by Nan Shan Life Insurance Company, aiming to reward outstanding academic performance students.

3. **The title of Outstanding Student for the Academic Achievement (2018/10)**
   Provided by National Cheng Kung University.

4. **Baoming Memorial Scholarship (2018/12)**
   Provided by the Banyan Garden Statistics Cultural and Educational Foundation, aiming to reward outstanding academic performance students.

5. **Ying-Jie Wang Scholarship (2018/3)**
   Provided by the Banyan Garden Statistics Cultural and Educational Foundation, aiming to reward outstanding academic performance students.

# Miscellaneous Experience

## Academic activities

August 2019 | **Wu Ta-You Science Camp** (Topic: Precision Health – The Future of Medicine)

2024-2025 | **Visiting Student** (Department of Biostatistics, Vanderbilt University Medical Center)

## Teaching Assistant

Subjects | **Calculus, Mathematical Statistics, Nonparamatric Statistics, Sampling Survey, Statistical Consulting**.