YOUNGJIN CHO

250 Drillfield Dr, Blacksburg, VA, United States

youngjin@vt.edu

EDUCATION

Ph.D. Candidate in Statistics (2020 -), Virginia Tech   *Blacksburg, VA, United States*
   Advisor: Dr. Pang Du (Professor, Virginia Tech)
   Co-advisor: Dr. Yili Hong (Professor, Virginia Tech)

M.S. in Statistics (2020), Sungkyunkwan University   *Seoul, Republic of Korea*
   Advisor: Dr. Seyoung Park (Associate Professor, Yonsei University)

B.Ec. in Statistics (2017), Sungkyunkwan University   *Seoul, Republic of Korea*

RESEARCH INTERESTS

Smoothing Splines, Functional Data Analysis, Survival Analysis, High-Dimensional Statistics

JOURNAL ARTICLES

Cho, Y., Hong, Y., and Du, P. (2025), An Accurate Computational Approach for Partial Likelihood Using Poisson-Binomial Distributions, *Computational Statistics & Data Analysis, Vol.208, 108161.*

Cho, Y., Do, Q., Du, P., and Hong, Y. (2024), Reliability Study of Battery Lives: A Functional Degradation Analysis Approach, *Annals of Applied Statistics, Vol.18, No.4, 3185-3204.*

Cho, Y. and Park, S. (2022), Multivariate Response Regression with Low-Rank and Generalized Sparsity, *Journal of the Korean Statistical Society, Vol.51, 847-867.*

PAPERS IN PROGRESS / UNDER REVIEW

Effect-Wise Local and Global Inference in Smoothing Spline ANOVA.

Cho, Y. and Du, P. (2025+), Smoothing Spline Competing Risk Cox Model.

Cho, Y., Lin, Z., Du, P., and Hong, Y. (2025+), Computing Partial Likelihood in Cox's Model with Competing Risks and Ties: A New Approach Using the Poisson Multinomial Distribution.

Sim, E., **Cho, Y.**, and Jeong, S. (2025+), Introducing the Multilevel Analysis of Individual Heterogeneity and Discriminatory Accuracy (MAIHDA) to Quantitatively Examine Intersectional Workplace Inequities: A Methodological Study.

Cho, Y., Lee, E., and Park, S. (2025+), Low-rank and Sparse Smoothed Quantile Regression Models for Multiple Responses.

PROFESSIONAL SERVICE

Acted as a reviewer for Computational Statistics & Data Analysis (2 submitted papers) and Journal of the Korean Statistical Society (3 submitted papers).

TALKS

Reliability Study of Battery Lives: A Functional Degradation Analysis Approach

    Colloquium at the Department of Mathematical Sciences, University of Nevada, Las Vegas. *Las Vegas, NV, United States, May 2025*

An Accurate Computational Approach for Partial Likelihood Using Poisson-Binomial Distributions

Invited talk at the 2024 IMS International Conference on Statistics and Data Science (ICSDS). *Nice, France, Dec. 2024*

Contributed talk at the 2024 Joint Statistical Meetings (JSM). *Portland, OR, United States, Aug. 2024*

Contributed talk at the 2024 Joint Research Conference on Statistics in Quality, Industry, and Technology (JRC). *Waterloo, ON, Canada, Jun. 2024*

HONORS AND AWARDS

Best Paper Award ($500)   *Feb. 2025*

    The 2025 Korean Academy of Human Resource Development in the Americas Best Paper Awards.

Student Travel Award ($800)   *Jul. 2024*

    The 2024 Joint Research Conference on Statistics in Quality, Industry, and Technology (JRC).

Academic Excellence Scholarship   *Fall 2019*

Dean's List   *Springs 2015, 2016*

WORK HISTORY

Virginia Tech: Research Assistant   *Blacksburg, VA, United States, Summers 2021, 2022, 2023*

Statistical Applications and Innovations Group, Virginia Tech: Associate Collaborator
                                 Blacksburg, VA, United States, Fall 2021 & Springs 2022, 2023

LG Display: Staff   *Paju, Republic of Korea, Jul. 2017 - Jul. 2018*

TEACHING

STAT 3094: SAS Programming   *Fall 2024*

STAT 5684: Survival Analysis (covered two lectures as a guest lecturer)   *Spring 2024*

TEACHING ASSISTANT

Acted as a teaching assistant for both undergraduate and graduate-level courses.   *2019 - 2025*

OTHERS

Grand Prize in the 2nd Electric Wave Big Data Creativity Contest (₩3,000k ≈ $2,700)   *2016*

    - Awarded by the Minister of Science and Technology in Republic of Korea

Sliver Prize in the 4th Tourism Big Data Analysis Contest (₩1,000k ≈ $900)   *2016*
Excellence Award in the 2nd Statistics Conference for Undergraduates   *2016*
Participation Prize in the 4th Public Data Entrepreneurship Contest Final (₩3,000k ≈ $2,700)   *2016*
Participation Prize in the 1st Microdata Utilizing Contest   *2016*
Grand Prize in 2016 Idea Contest for Utilizing Public Data of Jeju Province   *2016*
Military Service   *Republic of Korea Air Force, Jun. 2012 - Jun. 2014*