

# YOUNGJIN CHO

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## EDUCATION

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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

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

## PUBLISHED PAPERS

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**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

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**Cho, Y.** and Liu, M. (2025+), Effect-Wise Inference in Smoothing Spline ANOVA.

**Cho, Y.** and Du, P. (2025+), Competing Risk Model with A Nonparametric Form of Spline-Estimated Relative Risks.

**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.

**Cho, Y.**, Lee, E., and Park, S. (2025+), Convolution-Smoothed Multiple-Response Quantile Regression: Estimation and Inference.

## PROFESSIONAL SERVICE

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Acted as a reviewer for Statistica Sinica (1 submitted paper), Computational Statistics & Data Analysis (2 submitted papers), and Journal of the Korean Statistical Society (3 submitted papers).

## TALKS

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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 American Statistical Association Virginia Chapter 2025 Annual Meeting.  
*Blacksburg, VA, United States, Sep. 2025*

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

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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

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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

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STAT 5984: Linear Models for Data Science (presented twice as a guest speaker) *Fall 2025*

STAT 3094: SAS Programming *Fall 2024*

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

## TEACHING ASSISTANT

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

## OTHERS

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Grand Prize in the 2nd Radio Wave Big Data Creativity Contest (₩3,000k  $\approx$  \$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  $\approx$  \$900) *2016*

Excellence Award in the 2nd Statistics Conference for Undergraduates *2016*

Participation Prize in the 4th Public Data Entrepreneurship Contest Final (₩3,000k  $\approx$  \$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*