

# 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

## JOURNAL ARTICLES

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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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- Effect-Wise Local and Global Inference in Smoothing Spline ANOVA.
- Cho, Y.** and Du, P. (2025+), Smoothing Spline Competing Risk Cox Model.
- Lin, Z., **Cho, Y.**, Du, P., and Hong, Y. (2025+), A New Approach for Computing Partial Likelihood for Cox Model Under Competing Risks Using 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.

## 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 2024 IMS International Conference on Statistics and Data Science (ICSIDS). *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*

## PROFESSIONAL SERVICE

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Acted as a reviewer for:

Computational Statistics & Data Analysis (2 submitted papers)

Journal of the Korean Statistical Society (2 submitted papers)

## 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*

## 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*

## TEACHING

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**Lecturer, SAS Programming (STAT 3094)** *Fall 2024*

Taught 18 students throughout the entire semester, fully responsible for course delivery, with a student teaching evaluation score of 5.6/6.

**Guest Lecturer, Survival Analysis (STAT 5684)** *Spring 2024*

Graduate-level course; delivered two lectures on baseline hazard estimation in the Cox model.

## TEACHING ASSISTANT

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

## OTHERS

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Grand Prize in the 2nd Electric 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*