

YOUNGJIN CHO

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EDUCATION

Ph.D. Candidate in Statistics (2020 -), Virginia Tech	<i>Blacksburg, VA, United States</i>
Advisor: Dr. Pang Du (Professor, Virginia Tech)	
Co-advisor: Dr. Yili Hong (Professor, Virginia Tech)	
M.S. in Statistics (2020), Sungkyunkwan University	<i>Seoul, Republic of Korea</i>
Advisor: Dr. Seyoung Park (Associate Professor, Yonsei University)	
B.Ec. in Statistics (2017), Sungkyunkwan University	<i>Seoul, Republic of Korea</i>

RESEARCH INTERESTS

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

PUBLISHED PAPERS

- 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

- 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

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

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

Best Paper Award (\$500)	<i>Feb. 2025</i>
The 2025 Korean Academy of Human Resource Development in the Americas Best Paper Awards.	
Student Travel Award (\$800)	<i>Jul. 2024</i>
The 2024 Joint Research Conference on Statistics in Quality, Industry, and Technology (JRC).	
Academic Excellence Scholarship	<i>Fall 2019</i>
Dean's List	<i>Springs 2015, 2016</i>

WORK HISTORY

Virginia Tech: Research Assistant	<i>Blacksburg, VA, United States, Summers 2021, 2022, 2023</i>
Statistical Applications and Innovations Group, Virginia Tech: Associate Collaborator	<i>Blacksburg, VA, United States, Fall 2021 & Springs 2022, 2023</i>
LG Display: Staff	<i>Paju, Republic of Korea, Jul. 2017 - Jul. 2018</i>

TEACHING

STAT 5984: Linear Models for Data Science (presented twice as a guest speaker)	<i>Fall 2025</i>
STAT 3094: SAS Programming	<i>Fall 2024</i>
STAT 5684: Survival Analysis (covered two lectures as a guest lecturer)	<i>Spring 2024</i>

TEACHING ASSISTANT

Acted as a teaching assistant for both undergraduate and graduate-level courses.	<i>2019 - 2025</i>
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OTHERS

Grand Prize in the 2nd Electric Wave Big Data Creativity Contest (₩3,000k ≈ \$2,700)	<i>2016</i>
- 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)	<i>2016</i>
Excellence Award in the 2nd Statistics Conference for Undergraduates	<i>2016</i>
Participation Prize in the 4th Public Data Entrepreneurship Contest Final (₩3,000k ≈ \$2,700)	<i>2016</i>
Participation Prize in the 1st Microdata Utilizing Contest	<i>2016</i>
Grand Prize in 2016 Idea Contest for Utilizing Public Data of Jeju Province	<i>2016</i>
Military Service	<i>Republic of Korea Air Force, Jun. 2012 - Jun. 2014</i>