

# YOUNGJIN CHO

250 Drillfield Dr, Blacksburg, VA, United States  
youngjin@vt.edu

## EDUCATION

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| 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

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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)   | <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

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

## TEACHING

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| 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

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

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| Grand Prize in the 2nd Radio 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> |