

# YOUNGJIN CHO

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## ACADEMIC POSITIONS

University of Nevada, Las Vegas

*Las Vegas, NV, United States*

Assistant Professor (tenure-track): Department of Mathematical Sciences

*Jan. 2026 - Present*

## EDUCATION

Ph.D. in Statistics (2025), 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

## 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. (2026+), Effect-Wise Inference for Smoothing Spline ANOVA on Tensor-Product Sobolev Space.

**Cho, Y.** and Du, P. (2026+), Competing Risk Model with A Nonparametric Form of Spline-Estimated Relative Risks.

**Cho, Y.**, Lin, Z., Du, P., and Hong, Y. (2026+), 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. (2026+), Introducing the Multilevel Analysis of Individual Heterogeneity and Discriminatory Accuracy (MAIHDA) to Quantitatively Examine Intersectional Workplace Inequities.

**Cho, Y.**, Lee, E., and Park, S. (2026+), 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 (3 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*

Virginia Tech: Associate Collaborator in Statistical Applications and Innovations Group *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 ≈ \$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 ( $\text{₩}1,000k \approx \$900$ )	2016
Excellence Award in the 2nd Statistics Conference for Undergraduates	2016
Participation Prize in the 4th Public Data Entrepreneurship Contest Final ( $\text{₩}3,000k \approx \$2,700$ )	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	<i>Republic of Korea Air Force, 2012 - 2014</i>