

# Junhyoung Chung

Curriculum Vitae



## About me

This is about me

## personal

Junhyoung Chung  
nationality: Korean  
1999.07.22

## Areas of specialization

Statistics  
Machine Learning  
Bayesian Networks  
Directed Acyclic Graph

## Interests

Estimation of DAG with  
measurement error  
Causal Clustering

## Contact

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## EDUCATION

- 2024 ~ present **M.S. (Advisor: Gunwoong Park)**  
STATISTICS · Seoul National University
- 2018 ~ 2023 **B.S. & B.A. (*Summa cum laude*)**  
STATISTICS & ECONOMICS · Seoul National University



## PROGRAMMING

LaTeX

R

python

## PUBLICATION

- 2023 **Horse Race Rank Prediction Using Learning-to-Rank Approaches**  
JUNHYOUNG CHUNG \* · DONGUK SHIN · SEYONG HWANG · GUNWOONG PARK  
The Korean Journal of Applied Statistics (accepted)  
This is my first paper written during the undergraduate studies. This paper utilizes various Learning-to-Rank approaches at horse race rank prediction. The main contributions of this paper are: i) applying LTR approaches to sports, which have been only widely used in recommendation system, ii) enhancing the prediction performance compared to the previous research, and iii) establishing interpretability of the proposed model by Shapley values.

## ON-GOING WORKS

- 2024 **Learning Distribution-Free Anchored Linear Structural Equation Models in the Presence of Measurement Error**  
JUNHYOUNG CHUNG \* · YOUNGMIN AHN · DONGUK SHIN · GUNWOONG PARK  
Journal of Multivariate Analysis (under review)  
This paper proposes a new identifiability condition for Markov equivalence class and provides a distribution-free algorithm to capture the latent true graph in the presence of measurement error. It also ensures time efficiency as it estimates the true graph by inverse covariance matrix.
- 2024 **Discovering Causal Structures in Privacy-Protected and Noisy Data: Frugality in Anchored Gaussian DAG Models**  
JOONHO SHIN † · JUNHYOUNG CHUNG † · SEYONG HWANG † · GUNWOONG PARK †  
Computational Statistics and Data Analysis (under review)  
This paper considers a Gaussian DAG model in the presence of measurement error with unknown variances.

\* denotes the first author, and † denotes the authors that are equally contributed.

## AWARDS & HONORS

- 2021 3rd Prize, Online overseas volunteer program contest (Korean university council for social service)
- 2019 – 2021 Sergeant, Republic of Korea's Army

## LANGUAGES

Korean  
English  
Japanese  
Spanish

mother tongue

