

Hanbin Lee | Updated 2022.09.18

103 Daehakro, Jongro gu, Seoul 03080, Republic of Korea

✉ hanbin973@snu.ac.kr • 🌐 hanbin973.github.io

Medicine and mathematics undergraduate studying population/statistical genetics, epidemiology and causal inference.

Research Interests

- Population/Statistical Genetics, Epidemiology and Causal Inference

Publications

Journals

First author, Corresponding author[†]

1. **Lee H[†]**, and Han B[†]. FastRNA: an efficient exact solution for PCA of single-cell RNA sequencing data based on a batch-accounting count model. *American Journal of Human Genetics*. 2022
2. **Lee H[†]**, and Han B[†]. A theory-based practical solution to correct for sex-differential participation bias. *Genome Biology*. 2022
3. Kim C, **Lee H**, Jung JH, Jung KH[†], and Han B[†]. MarcoPolo: a method to discover differentially expressed genes in single-cell RNA-seq data without depending on prior clustering. *Nucleic Acids Research*. 2022

Education

Academic Qualifications

- **Department of Medicine - Seoul National University College of Medicine** **Seoul, Republic of Korea**
Medicine M.D., 2016 – Present
- **Department of Mathematical Sciences - Seoul National University** **Seoul, Republic of Korea**
Mathematics B.S., 2017 – Present

Grant and Awards

- **Student-directed Education Undergraduate Research Program (2021):** *Evaluating the effect of school closure on adolescent health in South Korea*
This project exploits a geographic variation of school closure in South Korea to evaluate the causal effect of school closure on adolescent health.
- **Shin Chang Jae Scholarship (2019-2021)**, Kyobo Life Insurance Inc.
Full to half tuition.
- **Eminence Scholarship (2016-2019)**, Seoul National University
Full to half tuition.

Technical and Personal skills

- **Programming Languages:** Python, R and C/C++
- **Web programming:** HTML/CSS and Javascript