Jaewon Lim

E-mail: imjaewon@uw.edu Homepage: https://imjaewon07.github.io

Education

University of Washington (Advisor: Dr. Alex Luedtke) Sep. 2021 - Present
Ph.D in Biostatistics Seattle, WA

University of Michigan May 2021
M.S in Biostatistics Ann Arbor, MI

Korea Advanced Institute of Science and Technology (KAIST) Aug. 2015
B.S in Mathematical Science Daejeon, Korea

Research interests

- Causal inference
- Data fusion
- Estimation of function-valued parameters
- Semiparametric inference

Publications

Under review / Preprints

1. Efficient estimation of causal dose-response function under data fusion
   Jaewon Lim, Alex Luedtke, 2025. https://arxiv.org/abs/2510.19094

Peer-reviewed Publications

2. Data-driven Automated Negative Control Estimation (DANCE).
   Erich Kummerfeld, **Jaewon Lim**, Xu Shi. 2024. *Journal of Machine Learning Research.*
   https://www.jmlr.org/papers/v25/22-1062.html
3. Potato Consumption and Risk of Cardiovascular Disease in a Harmonized Analysis of Seven Prospective Cohorts.
   Djousse, Luc, Xia Zhou, **Jaewon Lim**, et al., 2025. *Nutrients*. https://doi.org/10.3390/nu17030451
4. Impact of nonalcoholic fatty liver disease on the warranty period of a coronary artery calcium score of 0: Results from the Multi-Ethnic Study of Atherosclerosis.
   Keishi Ichikawa, **Jaewon Lim**, Robyn McClelland, et al., 2024. *Circulation*.
   http://doi.org/10.1161/CIRCIMAGING.123.016465
5. Potato consumption and risk of type 2 diabetes mellitus: a harmonized analysis of seven prospective cohorts. Djousse L, Zhou X, **Lim J**, McClelland RL, et al., 2024. *The Journal of Nutrition*.
   https://doi.org/10.1016/j.tjnut.2024.07.020
6. Ethnic Differences exist in Sleepiness 3 Months After Ischemic Stroke.
   Marri Horvat, Lynda D. Lisabeth, **Jaewon Lim**, Kevin He, et al., 2022. *Sleep Medicine*.
   https://doi.org/10.1016/j.sleep.2022.08.017
7. Temporal Trends in Ischemic Stroke Rates by Ethnicity, Sex, and Age (2000-2017): The Brain Attack Surveillance in Corpus Christi Project.

Lynda D Lisabeth, Devin L Brown, Darin B Zahuranec, Sehee Kim, **Jaewon Lim**, et al., 2021. *Neurology*. https://doi.org/10.1212/WNL.0000000000012877

8. Tissue-Based Stroke Definition Impacts Stroke Incidence but not Ethnic Differences. Lewis B Morgenstein, Xu Shi, **Jaewon Lim**, et al., 2021. *Journal of Stroke and Cerebrovascular Diseases* https://doi.org/10.1016/j.jstrokecerebrovasdis.2021.105727

Research experience

University of Washington

Research Assistant (Advisor: Dr. Tom Fleming) Jan. 2025 –

- Developed a method for sample size calculation for recurrent event data under the Andersen–Gill model by incorporating an estimate of between-subject heterogeneity.

Research Assistant (Advisor: Dr. Alex Luedtke) Jan. 2023 – Aug. 2024

- Estimation of causal dose-response function (CDRF) under data fusion
  - Constructed Neyman-orthogonal loss under a data fusion setting.
  - Demonstrated that incorporating additional data sources yields tighter finite-sample regret bounds and improved worst-case performance, as confirmed via minimax lower bound comparison.

Research Assistant (Advisor: Dr. Robyn Mcclelland) Jun. 2022 –Sep. 2023

- Conducted survival analyses for MESA participants to explore the relationship between the time to incidence of CVD and diabetes, and dietary indices.

Research Assistant (Advisor: Dr. Ali Shojaie) Sep. 2021 – May 2022

- Performed differential network analysis on Drosophila to study aging.

Presentation & Talks

- Efficient estimation of causal dose-response function under data fusion
  - Contributed Talk, International Conference on Statistics and Data Science (ICSDS), 2025
  - Seminar, UW Causal Inference Working Group, 2025
  - Seminar, UW Biostatistics Student Seminar, 2025

Teaching experience

- STAT 533 Theory of Linear Models (Spring 2024)
- STAT 570 Advanced Regression Methods for Independent Data (Fall 2023)
- BIOST 310 Biostatistics for the Health Sciences (Winter 2022)
- BIOST 513 Medical Biometry III (Spring 2022)

Skills & Qualifications

- Programming Languages: R (advanced), SAS (advanced), Python (intermediate), Git, Latex, SQL
- Qualifications: Fellow of Institute of Actuaries of Korea, Associate of the Society of Actuaries