

Jaewon Lim

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

Publications

- Jaewon Lim, Alex Luedtke, 2025
Efficient estimation of causal dose-response function under data fusion.
<https://arxiv.org/abs/2510.19094>
- Erich Kummerfeld, Jaewon Lim, Xu Shi., 2024
Data-driven Automated Negative Control Estimation (DANCE). *JMLR*.
<https://www.jmlr.org/papers/v25/22-1062.html>
- Djousse, Luc, Xia Zhou, Jaewon Lim, et al., 2025.
Potato Consumption and Risk of Cardiovascular Disease in a Harmonized Analysis of Seven Prospective Cohorts. *Nutrients*. <https://doi.org/10.3390/nu17030451>
- Keishi Ichikawa, Jaewon Lim, Robyn McClelland, et al., 2024
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. *Circulation*.
<http://doi.org/10.1161/CIRCIMAGING.123.016465>
- Djousse L, Zhou X, Lim J, McClelland RL, et al., 2024
Potato consumption and risk of type 2 diabetes mellitus: a harmonized analysis of seven prospective cohorts. *The Journal of Nutrition*. <https://doi.org/10.1016/j.tjnut.2024.07.020>
- Marri Horvat, Lynda D. Lisabeth, Jaewon Lim, Kevin He, et al., 2022
Ethnic Differences exist in Sleepiness 3 Months After Ischemic Stroke. *Sleep Medicine*.
<https://doi.org/10.1016/j.sleep.2022.08.017>
- Lynda D Lisabeth, Devin L Brown, Darin B Zahuranec, Sehee Kim, Jaewon Lim, et al., 2021
Temporal Trends in Ischemic Stroke Rates by Ethnicity, Sex, and Age (2000-2017): The Brain Attack Surveillance in Corpus Christi Project. *Neurology*. <https://doi.org/10.1212/WNL.0000000000012877>

- Lewis B Morgenstein, Xu Shi, Jaewon Lim, et al., 2021
Tissue-Based Stroke Definition Impacts Stroke Incidence but not Ethnic Differences. *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 –

- Sample size calculation of recurrent event data with between-subject heterogeneity
 - Developed a method to estimate between-subject random effects using historical data and derive a plug-in sample size estimator under the Andersen–Gill model.

Research Assistant (Advisor: Dr. Alex Luedtke)

Jan. 2023 – Aug. 2024

- Estimation of causal dose-response function (CDRF) under data fusion
 - Constructed Neyman-orthogonal loss of risk of CDRF under a data fusion setting
 - Derived a closed-form of empirical risk minimizer for CDRF under Reproducing Kernel Hilbert Space.
 - Bridged efficiency gain in risk estimation from data fusion to the reduction of excess risk of the CDRF estimator.

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, comparing metabolomic networks across two age groups while adjusting for lifespan.

Presentation & Talks

- Efficient estimation of causal dose-response function under data fusion
 - Contributed Talk, International Conference on Statistics and Data Science (ICSIDS), 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