

Jaewon Lim

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Education

University of Washington (Advisor: Dr. Alex Luedtke)	Sep. 2021 - Present
<i>Ph.D in Biostatistics</i>	Seattle, WA
University of Michigan	May 2021
<i>M.S in Biostatistics</i>	Ann Arbor, MI
Korea Advanced Institute of Science and Technology (KAIST)	Aug. 2015
<i>B.S in Mathematical Science</i>	Daejeon, Korea

Research interests

- Causal inference
- Data fusion
- Estimation of function-valued parameters
- 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.00000000000012877>

- 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

<i>Research Assistant (Advisor: Dr. Tom Fleming)</i>	Jan. 2025 –
• Sample size calculation of recurrent event data with between-subject heterogeneity <ul style="list-style-type: none"> - 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. 	
<i>Research Assistant (Advisor: Dr. Alex Luedtke)</i>	Jan. 2023 – Aug. 2024
• Estimation of causal dose-response function (CDRF) under data fusion <ul style="list-style-type: none"> - 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. 	
<i>Research Assistant (Advisor: Dr. Robyn McClelland)</i>	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.	
<i>Research Assistant (Advisor: Dr. Ali Shojaie)</i>	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 (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