Jaewon Lim

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Education

University of Washington (Advisor: Dr. Alex Luedtke) Sep. 2021 - Present

Ph.D in Biostatistics (GPA 3.91/4.0) Seattle, WA

- Relevant Coursework: Advanced Theory of Statistical Inference I-III (3.9), Advanced Regression Methods (4.0), Advanced Probability (3.9), Foundations of Machine Learning (3.8), Deep Learning

University of Michigan Sep. 2019 – May 2021

M.S in Biostatistics (GPA 4.0/4.0) Ann Arbor, MI

Korea Advanced Institute of Science and Technology (KAIST) Feb. 2009 – Aug. 2015

B.S in Mathematical Science 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.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.

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