

Chloe Krakauer, PhD

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EDUCATIONAL AND BIOGRAPHICAL INFORMATION

University of Washington, Seattle Ph.D., Biostatistics Dissertation advisors: Ken Rice, Ph.D. and Mauricio Sadinle, Ph.D.	2016-2021
University of Washington, Seattle Master of Science, Biostatistics Academic advisor: Jim Hughes, Ph.D.	2012-2014
Western Washington University Bachelor of Science, Mathematics and Minor in Business Administration, <i>magna cum laude</i>	2008-2012

PROFESSIONAL POSITIONS

Kaiser Permanente Washington Health Research Institute Collaborative Biostatistician III (Senior)	2025-present
Kaiser Permanente Washington Health Research Institute Collaborative Biostatistician II	2021-2025
Kaiser Permanente Washington Health Research Institute Research Assistant	2017-2021
University of Washington Teaching Assistant	
Introduction to R, University of Washington Summer Institutes	Summer 2020
Biostatistics for the Health Sciences	Winter 2020
Design of Medical Studies	Spring 2019
Seattle Epidemiologic Information Center (ERIC) Biostatistician Puget Sound Veterans Affairs Hospital, Seattle WA	2014-2017
HIV Prevention Trials Network Research Assistant/Biostatistician Fred Hutchinson Cancer Research Institute, Seattle	2012-2014

PROFESSIONAL HONORS

N/A

MEMBERSHIPS

• Member, Weight Inclusive Care Community of Practice (WIC CoP)	2024-present
• Member, American Statistical Association	2018-2024
• Member, International Biometric Society Western North American Region	2015-2024

ORGANIZATIONAL SERVICE

• Adult Changes in Thought Study P&P Committee	2024-present
• Scientific Seminar Series Coordinator, KPWHRI	2024-present
• Biostatistics Journal Club presentations:	2021-2024
○ Discussion on significance testing and p-value interpretation	
○ Wang Fitzmaurice (2006) single imputation method and application	

- Analyzing recurrent time-to-event analyses
- Marginal effect estimation
- Member, Pragmatic Clinical Trials Working Group 2022-present
 - Presentation on analyzing methods for analyzing data MNAR

OTHER PROFESSIONAL SERVICE

Career panels: Raleigh Charter High School, UW Biostatistics/Statistics & School of Public Health 2022-2025
 Mentor, Washington State Opportunity Scholarship 2022-2024

SPECIAL NATIONAL RESPONSIBILITIES

PCORI grant review panel Summer 2024

EDITORIAL RESPONSIBILITIES

- Reviewer, Vaccine 2022-2024
- Reviewer, International Journal of Environmental Research and Public Health 2022

RESEARCH FUNDING

Current:

National Cancer Institute 10/2024-10/2029
 R01 CA293229-01 (*McClure and Heffner) \$707,367
 Evaluation of a Novel mHealth Intervention for People Who Are Ambivalent About Quitting Smoking: A
 Randomized Control Trial
 Role: collaborative biostatistician (15% FTE)
 * Contact PI

National Institute on Aging 9/2024-8/2029
 R01 R01AG060942 (Lee) \$36M overall, \$12M KPWHRI
 Aging eyes and aging brains in studying Alzheimer's disease: Modern ophthalmic data collection in the Adult
 Changes in Thought (ACT) study, "Eye ACT" study renewal
 Role: collaborative biostatistician (35% FTE)

National Institute on Aging 5/2021-4/2026
 U19 AG066567 (McEvoy, Crane, and LaCroix) \$55M
 Adult Changes in Thought
 Role: collaborative biostatistician (30% FTE)

Past:

Food and Drug Administration Sentinel 4/2023-1/2025
 75F40122F19005 (Shaw) \$445,409
 Subset Calibration Methods
 Role: collaborative biostatistician (30% FTE)

National Institute on Aging 9/1/2019-8/31/2024
 R01 AG060942 (Lee) \$5,697,977
 Aging eyes and aging brains in studying Alzheimer's disease: Modern ophthalmic data collection in the Adult
 Changes in Thought (ACT) study
 Role: collaborative biostatistician (20% FTE)

National Institute on Aging 8/1/2018-8/31/2023
 1U19 AG066567-01A1 (Crane, Larson, and *MacDonald) \$795,210
 Reclaiming and Revitalizing ACT Neuroimaging Records
 Role: collaborative biostatistician (20% FTE)
 * Contact PI

National Institutes of Health R21 AG069111-02 (Miller) Pregnancy complications and the development of Alzheimer's disease and related dementias in women in the Adult Changes in Thought study Role: collaborative biostatistician (10% FTE)	9/30/2021-6/30/2023 \$323,694
National Cancer Institute R21 CA261199 (McClure) Design and Testing of a mHealth App for Ambivalent Smokers Living with HIV: A Randomized Pilot Study Role: collaborative biostatistician (15% FTE)	5/1/2021-4/30/2023 \$275,000
National Institute on Drug Abuse R01 DA044970 (Sullivan) STRategies to Improve Pain and Enjoy Life (STRIPE) trial Role: collaborative biostatistician (20% FTE)	3/15/2018-12/31/2022 \$1,169,474
Vaccine Impact Modeling Consortium P66050 (Jackson) Gavi Role: student research assistant (biostatistician)	3/31/2016-12/31/2021 \$349,266
National Cancer Institute R21 CA234003 (McClure) Development of a mHealth Intervention for Ambivalent Smokers Role: collaborative biostatistician (15% FTE)	8/1/2019-7/31/2021 \$239,250
Agency for Healthcare Research and Quality The Northwest Coalition for Primary Care Practice Support R18 HS023908 (Parchman) Healthy Hearts Northwest Role: student research assistant (biostatistician)	5/1/2015-4/30/2019 \$11,262,282
National Institute for Dental and Craniofacial Research (NIDCR) 1U01 DE024462-01 (McClure) Oral Health 4 Life: Promoting Oral Health among Tobacco Quitline Callers Role: student research assistant (biostatistician)	7/1/2014-4/30/2018 \$648,053
National Institute of Allergy and Infectious Diseases R01AI29168 (Hughes) Statistical Methods for AIDS Research Role: student researcher (biostatistician)	9/15/2013-9/15/2014
National Institute of Aging R01AG042934-01 (Shores and Walsh) Adverse Events Associated with Testosterone Treatment in Hypogonadal Men Role: biostatistician	8/2012-7/2014

TEACHING AND MENTORING RESPONSIBILITIES

N/A

PUBLICATIONS

Published papers in refereed (peer-reviewed) journals

1. Williamson, B. D., Krakauer, C., Johnson, E., Gruber, S., Shepherd, B. E., van der Laan, M. J., ... & Shaw, P. A. (2026). Assessing Treatment Effects in Observational Data with Missing Confounders: A Comparative Study of Practical Doubly-Robust and Traditional Missing Data Methods. *Statistics in Medicine*, 45(3-5), e70366.

2. Harrington, L.B., Tom, S., Krakauer, C., Wartko, P., Chau, K., Muiruri, R., Micks, E., McEvoy, L.K., LaCroix, A.Z., & Miller, E.C. (2025) Adverse Pregnancy Outcomes and Cognitive Change in Older Women. *Journal of Women's Health*, (2002), 10.1177/15409996251383009. [Epub ahead of print]
3. Lee, C. S., Su, Y. R., Walker, R. L., Krakauer, C., Blazes, M., Johnson, E. A., ... & Crane, P. K. (2025). A Novel AMD Severity Scoring System Leveraging the AREDS/AREDS2 and Routine Clinical Electronic Medical Records. *Investigative Ophthalmology & Visual Science*, 66(8), 493–493.
4. Li, K. H., Krakauer, C., Nelson, J. C., Crane, P. K., Andre, J. B., Curl, P. K., ... & Gray, S. L. (2025). Cumulative Anticholinergic Exposure and White Matter Hyperintensity Burden in Community-Dwelling Older Adults. *Journal of the American Geriatrics Society*, 73(4), 1115–1124.
5. Lee, C. S., Ferguson, A. N., Gibbons, L. E., Walker, R., Su, Y. R., Krakauer, C., ... & Eye ACT Study Group. (2024). Eye Adult Changes in Thought (Eye ACT) Study: Design and Report on the Inaugural Cohort. *Journal of Alzheimer's disease: JAD*, 100(1), 309–320.
6. McClure, J. B., Heffner, J. L., Krakauer, C., Mun, S., & Catz, S. L. (2024). A Novel mHealth App for Smokers Living with HIV Who Are Ambivalent About Quitting Smoking: Formative Research and Randomized Feasibility Study. *JMIR Formative Research*, 8, e58063.
7. Mossa-Basha, M., Andre, J. B., Yuh, E., Hunt, D., LaPiana, N., Howlett, B., Krakauer, C., Crane, P., Nelson, J., DeZelar, M., Meyers, K., Larson, E., Ralston, J., & Mac Donald, C. L. (2024). Comparison Of Brain Imaging and Physical Health Between Research and Clinical Neuroimaging Cohorts of Ageing. *British Journal of Radiology*, 97(1155), 614–621.
8. Rice, K. M., & Krakauer, C. (2023). Three-Decision Methods: A Sensible Formulation of Significance Tests—and Much Else. *Annual Review of Statistics and Its Application*, 10, 525–546.
9. Lee, C. S., Krakauer, C., Su, Y. R., Walker, R. L., Blazes, M., McCurry, S. M., ... & Crane, P. K. (2023). Diabetic Retinopathy and Dementia Association, Beyond Diabetes Severity. *American Journal of Ophthalmology*, 249, 90–98.
10. Wartko, P. D., Krakauer, C., Turner, J. A., Cook, A. J., Boudreau, D. M., & Sullivan, M. D. (2023). STRategies to Improve Pain and Enjoy life (STRIPE): Results of a Pragmatic Randomized Trial of Pain Coping Skills Training and Opioid Medication Taper Guidance for Patients on Long-Term Opioid Therapy. *Pain*, 164(12), 2852–2864.
11. McClure, J. B., Heffner, J. L., Krakauer, C., Mun, S., Klasnja, P., & Catz, S. L. (2023). Feasibility, Acceptability, and Potential Impact of a Novel mHealth App for Smokers Ambivalent About Quitting: Randomized Pilot Study. *JMIR mHealth and uHealth*, 11(1), e46155.
12. Hughes, J. P., Williamson, B. D., Krakauer, C., Chau, G., Ortiz, B., Wakefield, J., Hendrix, C., Amico, K. R., Holtz, T. H., Bekker, L. G., & Grant, R. (2022). Combining Information to Estimate Adherence in Studies of Pre-Exposure Prophylaxis for HIV Prevention: Application to HPTN 067. *Statistics in Medicine*, 41(6), 1120–1136.
13. Shores, M. M., Walsh, T. J., Korpak, A., Krakauer, C., Forsberg, C. W., Fox, A. E., ... & Matsumoto, A. M. (2021). Association Between Testosterone Treatment and Risk of Incident Cardiovascular Events Among US Male Veterans with Low Testosterone Levels and Multiple Medical Comorbidities. *Journal of the American Heart Association*, 10(17), e020562.
14. Coleman, K. F., Krakauer, C., Anderson, M., Michaels, L., Dorr, D. A., Fagnan, L. J., Hsu, C., & Parchman, M. L. (2021). Improving Quality Improvement Capacity and Clinical Performance in Small Primary Care Practices. *Annals of Family Medicine*, 19(6), 499–506.
15. Rice, K., Bonnett, T., & Krakauer, C. (2020). Knowing the Signs: A Direct and Generalizable Motivation of Two-Sided Tests. *Journal of the Royal Statistical Society Series A: Statistics in Society*, 183(2), 411–430.
16. McClure, J. B., Anderson, M. L., Krakauer, C., Blasi, P., Bush, T., Nelson, J., & Catz, S. L. (2020). Impact of a Novel Oral Health Promotion Program on Routine Oral Hygiene Among Socioeconomically Disadvantaged Smokers: Results from a Randomized Semi-Pragmatic Trial. *Translational Behavioral Medicine*, 10(2), 469–477.
17. Blasi, P. R., Krakauer, C., Anderson, M. L., Nelson, J., Bush, T., Catz, S. L., & McClure, J. B. (2018). Factors Associated with Future Dental Care Utilization Among Low-Income Smokers Overdue for Dental Visits. *BMC Oral Health*, 18(1), 183.
18. Walsh, T. J., Shores, M. M., Krakauer, C., Forsberg, C. W., Fox, A. E., Moore, K. P., Korpak, A., Heckbert, S. R., Zeliadt, S. B., Kinsey, C. E., Thompson, M. L., Smith, N. L., & Matsumoto, A. M. (2018). Testosterone Treatment and the Risk of Aggressive Prostate Cancer in Men with Low Testosterone Levels. *PloS One*, 13(6), e0199194.
19. Hall, G. C., Young, A., Krakauer, C., Watson, C. C., Cummings, V., Mayer, K., & Koblin, B. (2017). Sexual Risk Behaviors Among Black Men Who Have Sex with Men Who Also Report Having Sex with Transgender

Partners: Analysis of HIV Prevention Trials Network (HPTN) 061 Study. *AIDS Education and Prevention: Official Publication of the International Society for AIDS Education*, 29(5), 418–431.

Accepted peer-reviewed papers in press

N/A

Non-refereed papers/articles

1. Krakauer, C., & Rice, K. (2021). Chloe Krakauer and Kenneth Rice's Contribution to the Discussion of 'Testing by Betting: A Strategy for Statistical and Scientific Communication' by Glenn Shafer. *Journal of the Royal Statistical Society Series A: Statistics in Society*, 184(2), 452–453.
2. Shaw, P. A., Gruber, S., Williamson, B. D., Desai, R., Shortreed, S. M., Krakauer, C., ... & van der Laan, M. J. (2025). A Cautionary Note for Plasmode Simulation Studies in the Setting of Causal Inference. *arXiv preprint arXiv:2504.11740*.

Book chapters

N/A

Published technical reports

N/A

Published abstracts from professional conferences

1. Blazes, M. S., Su, Y. R., Morikawa, N., Krakauer, C., Walker, R., Johnson, E. A., ... & Lee, C. S. (2025). A Novel AMD Severity Scoring System Leveraging the AREDS/AREDS2 and Routine Clinical Electronic Medical Records. *Investigative Ophthalmology & Visual Science*, 66(8), 493-493.
2. Tom, S. E., Harrington, L. B., Chau, K., Wartko, P. D., Muiruri, R., Krakauer, C., ... & Miller, E. C. (2024). History of Adverse Pregnancy Outcomes and Cognitive Decline Among Older Adults: The Adult Changes in Thought Study. *Alzheimer's & Dementia*, 20, e089330.
3. Li, K. H., Krakauer, C., Nelson, J. C., Crane, P. K., Andre, J. B., Curl, P., ... & MacDonald, C. (2024). Association Between Cumulative Anticholinergic Use and White Matter Hyperintensity Burden. *Alzheimer's & Dementia*, 20, e084407.
4. McClure, J. B., Heffner, J. L., Krakauer, C., Mun, S., Klasnja, P., & Catz, S. L. (2023). Feasibility, Acceptability, and Potential Impact of a Novel mHealth App for Smokers Ambivalent About Quitting: Randomized Pilot Study. *JMIR mHealth and uHealth*, 11, e46155.
5. Lee, C. S., Su, Y. R., Krakauer, C., Walker, R., Lee, A. Y., O'Hare, A., ... & Crane, P. K. (2021). Diabetic Retinopathy and Dementia Link Is More Than Microvascular Disease and Poor Glycemic Control Mechanisms. *Investigative Ophthalmology & Visual Science*, 62(8), 1171-1171.

Digital and other novel forms of scholarship

1. Krakauer, C., Williamson, B., Johnson, E. A., & Shaw, P.A. (2024, April 3). *Marginal Estimation Vignette*. PamelaShaw GitHub. https://github.com/PamelaShaw/Missing-Confounders-Methods/blob/main/vignettes/Marginal%20EstimationVignette_20240403.pdf.

INVITED PRESENTATIONS

UW Biostatistics Student Colloquium

April 4, 2025

Center for Statistics and Social Sciences

January 2023

Presentation title: Toss the bathwater, keep the baby: How p-values can still be useful

OTHER PRESENTATIONS

Oral

Joint Statistical Meetings, virtual

August 2021

Contributed Session: Section on Bayesian Statistical Science

Presentation title: Decision-Theoretic Justification for Winner's Curse Reduction

WNAR, virtual

June 2021

Student Paper Competition

Paper/presentation title: Using decision theory to avoid fallacies of *post hoc* power

Joint Statistical Meetings, Vancouver BC

July 2018

Biometrics Section: Modern Methods and Applications for HIV/AIDS Research

Talk title: Statistical considerations when modeling with ordinary differential equations

Poster

Joint Statistical Meetings, virtual

August 2020

(Since it was virtual, each poster was accompanied by a recorded presentation)

Invited Poster Session

Poster title: Regression Estimation with Logit Additive Nonignorable Missingness
Using Auxiliary Marginal Information

Contributed Poster Session: Section on Bayesian Statistical Science

Poster title: Decision-Theoretic Approach to *Post-Hoc* Significance Test Assessment,
Addressing the question “I had near-significant results...what now?”