

Chloe Krakauer

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EDUCATION

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

PROFESSIONAL EXPERIENCE

- Kaiser Permanente Washington Health Research Institute** 2017-2019, 2020-present
Collaborative Biostatistician II (2021-present)/Research Assistant
Seattle WA
- My work involves a variety of epidemiologic studies and clinical trials.
 - Plan and conduct data analyses, disseminate results, and prepare manuscripts.
 - Write analysis plans, prepare grants, and consult investigators.
 - Plan journal club meetings.
 - Research project topics: lung cancer screening, pharmaceutical pricing, smoking cessation and dental hygiene, home-based HPV testing, improvements in cardiovascular health care in small clinics, recruitment to volunteer samples for biobank, dementia, opioid tapering, and modeling efficacy of different meningitis vaccination schedules.
- University of Washington** Summer 2020
Teaching Assistant for Introduction to R
University of Washington Summer Institutes (held virtually)
Seattle WA
- Answered questions via Slack/Zoom.
 - Class taught by Drs. Ken Rice and Timothy Thornton, UW
- Teaching Assistant for Biostatistics for the Health Sciences Winter 2020
Seattle WA
- Held regular office hours
 - Led discussion section
 - Class taught by Dr. Lyndia Brumback, UW
- Teaching Assistant for Design of Medical Studies Spring 2019
Seattle WA
- Delivered a lecture on blinding, factorial designs, and cross-in designs.
 - Held regular office hours, helping students design medical studies.
 - Critiqued study designs during mock site reviews and other grading responsibilities.
 - Responsible for maintaining website.
 - Class taught by Dr. Thomas Fleming, UW

Seattle Epidemiologic Information Center (ERIC)

2014-2017

Biostatistician

Puget Sound Veterans Affairs Hospital, Seattle WA

- Planned and conducted data analyses, disseminated results, and prepared manuscripts.
- Wrote analysis plans, prepared grants, and consulted investigators.
- Managed and requested data and prepared data collection instruments.
- Conducted simulation studies to determine necessary sample size.
- Served as lead statistician on a national epidemiologic study.
- Research project topics: plan to evaluate coverage of a national data set; effects of deployment to the middle east on pulmonary health; participation among Veterans in health surveys; and associations between testosterone treatment with risk of prostate cancer, bladder cancer, and cardiovascular events.

HIV Prevention Trials Network

2012-2014

Research Assistant/Biostatistician

Fred Hutchinson Cancer Research Institute, Seattle

- Planning and conducting analyses with CDC fellow on risk of HIV transmission.
- Simulations to determine bias during interim analyses of clinical trial.
- Assess sensitivity to missing data using simulations.

PUBLICATIONS

In press

1. KM Rice and **CA Krakauer**. Three-Decision Methods: A Sensible Formulation of Significance Tests—and Much Else. *Annual Review of Statistics and its Applications*. In press.
2. Cecilia S. Lee, **Chloe Krakauer**, Yu-Ru Su, Rod Walker, Marian Blazes, Susan M. McCurry, James D. Bowen, Wayne C. McCormick, Aaron Y. Lee, Edward Boyko, Ann O'Hare, Eric B. Larson, Paul K. Crane, Diabetic Retinopathy and Dementia Association, Beyond Diabetes Severity. *American Journal of Ophthalmology*. In press.

Published

1. James Hughes, Brian D. Williamson, **Chloe Krakauer**, Gordon Chau, Brayan Ortiz, Jon Wakefield, Craig Hendrix, K. Rivet Amico, Timothy H. Holtz, Linda-Gail Bekker, and Robert Grant. Combining Information to Estimate Adherence in Studies of Pre-exposure Prophylaxis for HIV Prevention: Application to HPTN 067. *Statistics in Medicine*. March 2022.
2. 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.
3. Coleman, Katie F., **Krakauer, Chloe**, and Anderson, Melissa, et al. "Improving Quality Improvement Capacity and Clinical Performance in Small Primary Care Practices." *The Annals of Family Medicine* 19.6 (2021): 499-506.
4. 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.
5. **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.
6. Kenneth Rice, Tyler Bonnett, and **Chloe Krakauer**. Knowing the signs: a direct and generalizable motivation of two-sided tests. *Journal of the Royal Statistical Society: Series A (Statistics in Society)*, 2020.
7. McClure, J.B.; Anderson, M.L.; **Krakauer, C.**; Blasi, P.; Bush, T.; Nelson, J.; Catz, S.L. 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*. February 2019.

8. Blasi, P.R.; **Krakauer, C.**; Anderson, M.L.; Nelson, J.; Bush, T.; Catz, S.L.; McClure, J.B. Factors Associated with future dental care utilization among low-income smokers overdue for dental visits. *BMC Oral Health*. November 2018, 18 (1), 183.
9. Walsh TJ, Shores MM, **Krakauer CA**, Forsberg CW, Fox AE, Moore KP, et al. (2018) Testosterone treatment and the risk of aggressive prostate cancer in men with low testosterone levels. *PLoS ONE* 13(6): e0199194. <https://doi.org/10.1371/journal.pone.0199194>
10. Hall, G.; Young, A.; **Krakauer, C.**; Watson, C.C.; Cummings, V.; Mayer, K.; Koblin, B. 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*. October 2017, Vol. 29, No. 5: 418–431.

PRESENTATIONS

- 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, virtual** August 2020
 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?”
- 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

PROFESSIONAL ACTIVITIES

Society Memberships

- Member, American Statistical Association 2018-present
- Member, International Biometric Society Western North American Region 2015-present

Ad Hoc Reviews for Journals

- Vaccine
- International Journal of Environmental Research and Public Health

OTHER

- Missing Data Reading Group** Spring 2019
 Organizer
- Primary aim was to read through the National Academy of Sciences 2010 report on missing data in clinical trials and become familiar with other current methodological issues related to missing data.
 - Scheduled meetings and organized talks with guest speakers.
 - Delivered lecture and led discussion on methods for data missing not at random.

HONORS, AWARDS, AND SCHOLARSHIPS

- Mathematics Memorial Scholarship, Western Washington University 2011
- Accepted into Honors Program and Scholarship, Western Washington University 2008
Scholarship awarded to top ten percent of incoming class

PROGRAMMING AND SOFTWARE

- **R** (proficient): simulations, graphics, data manipulation, statistical analysis, summary statistics, and R Markdown.
- **Stata** (proficient): data manipulation, graphics, statistical analysis, and summary statistics.
- **OpenBUGS** (proficient): simulations
- **Latex** (proficient)
- **Microsoft Office** (proficient)
- **Mathematica** (working knowledge)
- **GitHub** (working knowledge)
- **PASS** (working knowledge)