

Chloe Ann Krakauer

Seattle WA, 98115 | krakac@uw | (919) 889-7846 | <http://students.washington.edu/krakac/>
<https://www.linkedin.com/in/chloe-krakauer-38328097>

EDUCATION

- University of Washington, Seattle** 2016-present
Ph.D., Biostatistics
Academic advisor: MaryLou Thompson, 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-present
Research Assistant/Biostatistician
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, and modeling efficacy of different meningitis vaccination schedules.
- 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.

RESEARCH PROJECTS

Post-Hoc Test Assessment 2019-present
Advised by Kenneth Rice, PhD (UW)

- Many loss functions yielding Bayesian decision rules may motivate use of common statistical tests.
- We aim to use these loss functions to provide a Bayesian allegory to severity to better assess evidence against a null hypothesis provided by a test, accounting for relative loss when making each possible incorrect decision.

Study Design With Systems of Ordinary Differential Equations 2017-present
Advised by Ali Shojaie, PhD (UW) and Sarah Holte, PhD (Fred Hutchinson Cancer Research Institute)

- Expected values of many systems of observations are defined using systems of ordinary differential equations.
- We aim to design studies that minimize cost while maximizing precision of estimates of parameters in the assumed system of ordinary differential equations.

Determining Adherence With Sparse Biomarkers Using a Bayesian Framework 2013-2014
Masters thesis, UW, advised by Jim Hughes, PhD

- Biological samples were collected sparsely during treatment of HIV-negative individuals with pre-exposure prophylaxis (PrEP) during a clinical trial.
- Using biological samples and self-report of adherence, we aimed to estimate adherence of subjects to the prescribed treatment regimen using pharmacokinetic modeling via MCMC.

PUBLICATIONS

Published

1. 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, 18:183.
2. 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>
3. 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.

Accepted for Publication

1. 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. Date TBD.

PRESENTATIONS

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 SOCIETIES

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

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
- **SAS** (working knowledge): statistical analysis and summary statistics.
- **Latex** (proficient)
- **Microsoft Office** (proficient)
- **PASS** (working knowledge)

ACTIVITIES

Baking, decorating pastries, and drawing (<https://www.instagram.com/chloecakecookie/?hl=en>)