

Aaron Hudson, Ph.D.

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awhudson.github.io

PROFESSIONAL POSITION	Assistant Professor of Biostatistics , Fred Hutchinson Cancer Center Vaccine and Infectious Disease Division	August 2022 – Present
EDUCATION AND TRAINING	Postdoctoral Fellow , University of California, Berkeley Advisors: Dr. Mark van der Laan & Dr. Maya Petersen	August 2021 – July 2022
	Ph.D., Biostatistics , University of Washington, Seattle Advisor: Dr. Ali Shojaie	September 2016 – June 2021
	B.S., Statistics , University of Illinois at Urbana-Champaign <i>Summa Cum Laude with Highest Distinction in Statistics</i>	August 2013 – May 2016
SCHOLARSHIPS AND AWARDS	Thomas R. Fleming Excellence in Biostatistics Award, University of Washington	2021
	David P. Byar Early Career Award, American Statistical Association	2021
	NSF Graduate Research Fellowship	2018
	Achievement Reward for College Scientists (ARCS) Fellowship	2016
	Department of Biostatistics Excellence Award, University of Washington	2016
	State Farm Scholarship, University of Illinois Department of Statistics	2015
PUBLICATIONS	Published or Accepted	
	[1] Hudson, A. , & Shojaie, A. (2021). Covariate-adjusted inference for differential analysis of high-dimensional networks. <i>Sankhya A</i> .	
	[2] Culpepper, S. A., & Hudson, A. (2018). An improved strategy for Bayesian estimation of the reduced reparameterized unified model. <i>Applied Psychological Measurement</i> .	
	[3] Zeigler-Johnson, C., Hudson, A. , Glanz, K., Spangler, E., & Morales, K. H. (2018). Performance of prostate cancer recurrence nomograms by obesity status: a retrospective analysis of a radical prostatectomy cohort. <i>BMC Cancer</i> .	
	Submitted or In-Preparation	
	[1] Hudson, A. , Petersen, M., & van der Laan, M. (2022). An approach to nonparametric inference on the causal dose response function. <i>In preparation</i> .	
	[2] Hudson, A. , Carone M., & Shojaie, A. (2021). Inference on function-valued parameters using a restricted score test. <i>Pre-print available on arXiv</i> .	
	[3] Hudson, A. , & Shojaie, A. (2020). Statistical inference for qualitative interactions with applications to precision medicine and differential network analysis. <i>Pre-print available on arXiv</i> .	
SOFTWARE	<code>rrum</code> R package for Bayesian estimation of the reduced Reparameterized Unified Model	
PRESENTATIONS	[1] Inference on function-valued estimands using a restricted score test. The International Conference on Econometrics and Statistics (EcoSta). Online. June 2022.	
	[2] An approach to nonparametric inference on the dose response function. American Causal Inference Conference. Berkeley, California. May 2022.	
	[3] A general approach to inference on function-valued estimands using a restricted score test. University of Illinois at Urbana-Champaign Department of Statistics Seminar. Champaign, Illinois.	

August 2021.

- [4] Inference on function-valued estimands using a restricted score test. Joint Statistical Meetings (JSM). Online. August 2021.
- [5] Inference on function-valued estimands. University of Illinois at Urbana-Champaign Blackwell Summer Scholars Program. Online. June 2021.
- [6] The restricted gradient test: A nonparametric score-type test for infinite-dimensional risk minimizers. Joint Statistical Meetings (JSM). Online. August 2020.
- [7] Testing qualitative interactions: From precision medicine to network inference. Annual Meeting of The Western North American Region of The International Biometric Society (WNAR). Portland, Oregon. June 2020.
- [8] Bayesian estimation of generalized NIDA model with Gibbs sampling. International Meeting of the Psychometric Society. Asheville, North Carolina. June 2016.
- [9] An analysis of the interaction between obesity and scores predicting prostate cancer-free survival. American Association for Cancer Research (AACR) Health Disparities Conference. Atlanta, Georgia. November 2015.
- [10] An analysis of the interaction between obesity and scores predicting prostate cancer-free survival. The Leadership Alliance National Symposium (LANS). Stamford, Connecticut. July 2015.

SERVICE	Equity, Diversity, and Inclusion Committee,	2017 - 2020
	University of Washington Department of Biostatistics	
	Admissions Committee, University of Washington Department of Biostatistics	2020
	Student Seminar Co-organizer, University of Washington Department of Biostatistics	2018-2019
	Referee Service: <i>Annals of Statistics</i> , <i>Biostatistics</i> , <i>Journal of Computational and Graphical Statistics</i> , <i>Scandinavian Journal of Statistics</i>	
	Session Chair: Joint Statistical Meetings	
TEACHING	Teaching Assistant, BIOST 527: Nonparametric Regression and Classification,	2020
	University of Washington	
	Guest Lecturer, BIOST 527: Nonparametric Regression and Classification,	2020
	University of Washington	
	Teaching Assistant, Supervised Methods for Machine Learning,	2020
	Summer Institute for Statistics in Big Data	
	Teaching Assistant, BIOST 310: Biostatistics in the Health Sciences,	2018
	University of Washington	