SCOTT POWERS

saberpowers.github.io

Academic Experience	
Rice University Assistant Professor of Sport Analytics and (by courtesy) of Statistics	2023-
SPORT EXPERIENCE	
FULL-TIME	
Houston Astros Assistant General Manager	2022
Los Angeles Dodgers Director, Quantitative Analysis Senior Analyst, Research & Development	2017-2021 2019-2021 2017-2018
Consulting	
Zelus Analytics Staff Data Scientist Senior Data Scientist	2020, 2023- 2023- 2020
AZ Alkmaar Data Analyst	2015-2020
Oakland Athletics Analytics Consultant	2015-2016
EDUCATION —	
Stanford University Ph.D. Statistics Advisor: Rob Tibshirani	2017
University of Chicago M.S. Statistics	2013
University of North Carolina at Chapel Hill B.S. Mathematical Decision Sciences and Mathematics Highest Honors from the Department and Highest Distinction from the University	2011
Research	

PRE-PRINTS

Powers S, Stancil L, Consiglio N

"Estimating individual contributions to team success in women's college volleyball" https://arxiv.org/abs/2402.01083

PUBLICATIONS

Burton T, Powers S, Burns C, Conway G, Leach F, Senecal K (2023)

"A data-driven greenhouse gas emission rate analysis for vehicle comparisons" SAE International Journal of Electrified Vehicles 12(1)

Powers S, McGuire V, Bernstein L, Canchola AJ, Whittemore AS (2019)

"Evaluating disease prediction models using a cohort whose covariate distribution differs from that of the target population"

Statistical Methods in Medical Research 28(1) 309-320

Powers S, Hastie T, Tibshirani R (2018)

"Nuclear penalized multinomial regression with an application to predicting at bat outcomes in baseball" $Statistical\ Modelling\ 18(5-6)\ 388-410$

Powers S, Qian J, Jung K, Schuler A, Shah NH, Hastie T, Tibshirani R (2018)

"Some methods for heterogeneous treatment effect estimation in high dimensions" Statistics in Medicine 37(11) 1767-1787

McGinnis L, Powers S, Bangs D, Cherry A, Tibshirani R, Natkunam Y (2016)

"Double-hit diffuse large B-cell lymphomas with MYC gene rearrangements more commonly involve BCL2 than BCL6 gene rearrangements as the second hit: A large scale single institution study" Laboratory Investigation 96 362A

Burton T, Powers S (2015)

"A linear model for estimating optimal service fraction in volleyball" Journal of Quantitative Analysis in Sports 11 117-129

Powers S, Hastie T, Tibshirani R (2015)

"Customized training with an application to mass spectrometric imaging of cancer tissue" The Annals of Applied Statistics 9 1709-1725

Powers S, DeJongh M, Best AA, Tintle NL (2015)

"Cautions about the reliability of pairwise gene correlations based on expression data" Frontiers in Microbiology ${\bf 6}$ 650

Powers S, Gopalakrishnan S, Tintle NL (2011)

"Assessing the impact of non-differential genotyping errors on rare variant tests of association" $Human\ Heredity\ 72\ 153-160$

Luedtke A, Powers S, Petersen A, Sitarik A, Bekmetjev A, Tintle NL (2011)

"Evaluating methods for the analysis of rare variants in sequence data" $BMC\ Proceedings\ {\bf 5}\ S119$

Petersen A, Sitarik A, Luedtke A, Powers S, Bekmetjev A, Tintle NL (2011)

"Evaluating methods for combining rare variant data in pathway-based tests of genetic association" $BMC\ Proceedings\ \mathbf{5}\ S48$

Saavedra S, Powers S, McCotter T, Porter MA, Mucha PJ (2010)

"Mutually-antagonistic interactions in baseball networks"

Physica A: Statistical Mechanics and its Applications 389 1131-1141

Conference Presentations

Conference of Texas Statisticians "Baseball pitch trajectory density estimation for predicting fut	are pitcher outcomes"	Houston 2024
MIT Sloan Sports Analytics Conference "Spotlighting under-the-radar performers in women's college vo	lleyball"	Boston 2024
New England Symposium on Statistics in Sports "Estimating individual contributions to team success in women	's college volleyball"	Boston 2023
Saberseminar "Pitch trajectory density estimation for predicting future outco "Jointly predicting exit velocity and launch angle for batter-pit "Rewarding batters for baserunner advancement: A ridge-regre	cher matchups"	Chicago 2023 Boston 2016 Boston 2015
Joint Statistical Meetings "Nuclear penalized multinomial regression for predicting at bat	outcomes in baseball"	Chicago 2016
SABR Analytics Conference "True wOBA: Estimation of true talent level for batters"		Phoenix 2016
STUDENT POSTER PRESENTATIONS		
Opta Forum Andrew Kang: "Not All Features Are Created Equal: Player cl	ustering and evaluation"	London 2024
FUNDING		
Rice University Creative Ventures Conference and Wor "Rice Soccer Analytics Conference" PI: S Powers, \$10,000	rkshop Development	
		2024-2025
Teaching —		2024-2025
	* indicates a	2024-2025 course I designed
Rice University Instructor, *SMGT 430: Introduction to Sport Analytics Instructor, *SMGT 432: Soccer Analytics Instructor, *SMGT 435: Baseball Analytics	* indicates a	
Rice University Instructor, *SMGT 430: Introduction to Sport Analytics Instructor, *SMGT 432: Soccer Analytics	Winter 2014, Summer 20	Spring 2024 Fall 2023 Spring 2024 Spring 2016 Fall 2016

STUDENT MENTORSHIP Rice University Principal Investigator, Sport Analytics Undergraduate Research Lab 2024-Students/Alumni: Jeff Brover, Naomi Consiglio, Jacob Hahn, Rahul Herrero, Elisabeth Millington, Elizabeth Sepulveda, Luke Stancil, Lou Zhou, Judy Zhu Coordinator, Sport Analytics Graduate Reading Group 2023-2024 Coordinator, Big Data Bowl Support Group 2023 University Service — Rice University Faculty Associate, Wiess College 2024-2024 Instructor, Owl Days Classroom Sampler (Office of Admission) Speaker, Special Occasion Dinner (Friends of Fondren Library) 2024 Speaker, Brains in a Bar (Association of Rice Alumni) 2024 Sport Analytics Club Program Faculty Advisor, Rio Rico High School (Rio Rico, AZ) 2023-2024 Professional Development -Rice Center for Teaching Excellence INSTILL Mini-Grant Program 2023-2024 Reading Group 2023-2024 Symposium on Teaching and Learning 2024 Workshop on Inclusive Teaching Strategies 2023 Conferences Attended Women in Sports Data Symposium Philadelphia 2023 Minority Trailblazers in Sports Conference Houston 2023 AWARDS -Graduate Research Fellowship, National Science Foundation 2011 McCormick Fellowship, University of Chicago 2011 Mathematical Decision Sciences Award, UNC Department of Statistics & Operations Research 2011 Student Speaker Award, Pi Mu Epsilon National Meetings 2010 National Merit Scholarship, National Merit Scholarship Corporation 2007 2005, 2006, 2007 Jack Kavanagh Memorial Youth Baseball Research Award, SABR ACTIVITIES —— Sports Analytics Club, Stanford University 2014-2017 Co-President 2015-2016 Intercollegiate Club Baseball, Stanford University 2013-2015 Intercollegiate Club Volleyball, Stanford University 2013-2016 Intercollegiate Club Volleyball, University of Chicago 2011-2013 Intercollegiate Club Volleyball, University of North Carolina at Chapel Hill 2007-2011 President 2008-2010