Rina Friedberg

Machine Learning Researcher

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Education

2015-2020	Ph.D. in Statistics, **Stanford University** Advisor: Susan Athey *Statistics Department Teaching Assistant Award (2018), Marjorie Lozoff Graduate Prize (2018), Stanford Bio-X Travel Award (2018, 2020), National Defense Science and Engineering Graduate Fellowship (2016)*
2011-2015	B.Sc. in Mathematics (with Honors), **University of Chicago** *Student Marshal Appointment, Phi Beta Kappa Honor Society, University Dean's Fund Recipient, Dean's List (2012, 2013, 2014, 2015), National Merit Scholar*

Professional Experience

July 2020 – Present	**LinkedIn,** *Data Science and Applied Research* Developing cutting-edge methods for experimentation and causal inference.
Winter 2020 – May 2020	**Nines AI**, *Statistics Consultant* External consultant to Nines, a Series A startup solving tough technical problems in radiology. Worked alongside engineers and healthcare professionals to develop innovative statistical methods in machine learning and medical trial design.
Summer 2017	**Microsoft Corporation**, *Data Science Group (Intern)* Shipped a python package that provides local explanations of black-box regression models. Delivered, along with the product, theory justifying the method and documentation explaining its usage.
Summer 2015	**Weizmann Institute of Science,** *Research Assistant* In Prof. Boaz Nadler's lab, developed a theory comparing methods of combining information in the distributed learning setting.

Research

2020	**R. Friedberg**, J. Tibshirani, S. Athey, S. Wager. *Local Linear Forests*. Journal of Computational and Graphical Statistics.
2020	**R. Friedberg**, C. Sarnquist, G. Nyairo, M. Amuyunzu-Nyamongo, M. Baiocchi. *Understanding the spatial burden of gender-based violence: Modelling patterns of violence in Nairobi, Kenya through geospatial information*. ArXiv e-prints, 2002.06710. Under review.
2020	**R. Friedberg**, M. Baiocchi, E. Rosenman, M. Amuyunzu-Nyamongo, G. Nyairo, C. Sarnquist. *Mental health and gender-based violence: An exploration of depression, PTSD, and anxiety among adolescents in informal settlements participating in an empowerment intervention*. Under review
2020	

2019	M. Baiocchi, **R. Friedberg**, E. Rosenman, M. Amuyunzu-Nyamongo, G. Oguda, D. Otieno, C. Sarnquist. *Prevalence and risk factors for sexual assault among class 6 students in unplanned settlements of Nairobi, Kenya: Baseline analysis from the IMPower & Sources of Strength cluster randomized controlled trial.* PLOS One.
2019	E. Rosenman, C. Sarnquist, **R. Friedberg**, M. Amuyunzu-Nyamongo, G. Oguda, D. Otieno, M. Baiocchi. *Empirical Insights for Improving Sexual Assault Prevention: Early Evidence from a Cluster-Randomized Trial of IMPower and Sources of Strength.* Violence against Women.
2016	J. Clancy, **R. Friedberg,** I. Kasmalkar, I. Loh, T. Padurariu, C. Silva, S. Vasudevan. *Ergodicity and Conservativity of products of infinite transformations and their inverses.* Colloquium Mathematicum

Conference Talks

2019	Joint Statistical Meetings
	Model-Free Policy Evaluation, topic-contributed talk
2019	Stanford Statistics Industrial Affiliates Conference
	Leveraging Smoothness with Random Forests
2019	Conference on Statistical Practice
	Global Health, Conflicted Data, and GPS - Analyzing a Gender-Based Violence Intervention in Nairobi, Kenya
2018	Bay Area Machine Learning Conference (BayLearn)
	Leveraging Smoothness with Random Forests
2018	Joint Statistical Meetings
	Local Linear Forests
2017	Computational and Methodological Statistics (CM-Statistics)
	Local Linear Forests, invited talk
2015	Joint Mathematics Meetings
	Conservativity of Products in Infinite Measure

Professional and Department Service

Reviews	Journal of Computational and Graphical Statistics, Journal of Machine Learning Research, Statistics and Probability Letters, ICLR AI for Social Good workshop (project mentor), European Economic Review, BayLearn Conference, Child Abuse and Neglect
2018-2020	Statistics Department, Orientation Committee co-coordinator
2016-2020	Statistics Department, TA coordinator
2017-2019	Stanford Women in Math Mentoring mentor and board member
2016-2017	Statistics Department, PhD tutor
2016-2017	Statistics Department, social coordinator
2016-2019	Stanford Graduate Student Community Associate

Teaching

STAT 315A	Modern Applied Statistics: Machine Learning (TA, head TA)
STAT 305A	Linear Models (TA)
STAT 305B	Methods for Applied Statistics (TA)
STAT 305C	Applied Bayesian Statistics (TA)
CS 229	Machine Learning (TA)
STAT 200	Introduction to Statistical Inference (TA)