

Eric Potash

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EXPERIENCE	University of Chicago Postdoctoral Scholar (Advisor: Dan Black), Harris School of Public Policy	2017–Now
EDUCATION	Northwestern University Ph.D. Mathematics (Advisor: Steve Zelditch) Dissertation: Euclidean Embeddings and Riemannian Bergman Metrics	2009–2014
	Columbia University B.A. Mathematics with Honors, Columbia College Class of 2009 Thesis: An Application of Poincaré’s Fundamental Polyhedron Theorem	2005–2009
PUBLICATIONS	Randomization Bias in Field Trials to Evaluate Targeting Methods <i>Economics Letters</i> , Volume 167, June 2018, Pages 131–135.	
	Predictive Modeling for Public Health: Childhood Lead Poisoning <i>21st ACM SIGKDD Proceedings</i>	
	Euclidean Embeddings and Riemannian Bergman Metrics <i>The Journal of Geometric Analysis</i> , January 2016, Volume 26, Issue 1, pp 499–528	
WORKING PAPERS	Prediction-Based Decisions and Fairness: A Catalogue of Choices, Assumptions, and Definitions with Shira Mitchell and Solon Barocas	
	Predictive Modeling for Environmental Protection: Hazardous Waste Management with Jimmy Jin, Maria Kamenetsky, Dean Magee, Paul van der Boor, and Rayid Ghani	
WORK IN PROGRESS	Evaluation of a Predictive Model for Primary Prevention of Childhood Lead Poisoning with Rayid Ghani, Joe Walsh, Emile Jorgensen, Cortland Lohff, and Raed Mansour	
	Prevention of Childhood Lead Poisoning: Analysis Using Instrumental Variables with Emile Jorgensen	
POPULAR WRITING	Why It’s So Hard to Find Out Where the Candidates Stand <i>Washington Monthly</i> , November 2016	
INVITED TALKS	EPA Research and Development “Science at Work” Seminar Proactive Lead Investigations, 4/12/2017	
	City Bureau Public Forum Lead Poisoning Panel Speaker, 3/13/2017	
	American Public Health Association Annual Meeting Predictive Analytics in Advancing Public Health Session, 11/3/2015	
	Bloomberg Data for Good Exchange Predictive Modeling for Public Health: Childhood Lead Poisoning, 9/30/2015	
	ACM Knowledge Discovery and Data Mining (KDD) Annual Conference Predictive Modeling for Public Health: Childhood Lead Poisoning, 8/12/2015	
GRANTS	Collecting and Sharing Information across Sectors in Chicago and Illinois to Identify Children at Risk for Lead Poisoning. Robert Wood Johnson Foundation. With Rayid Ghani, Raed Mansour, Matthew Roberts, John DiCello, Tom Schenk, Illinois Department of Human Services, and Alliance of Chicago.	

Grant ID 73354. \$200,000.

INDUSTRY EXPERIENCE	University of Chicago	2014–2017
	Research Professional II, Center for Data Science and Public Policy	
	Eric and Wendy Schmidt Data Science for Social Good	Summer 2016
	Technical Mentor	
	Open Energy Efficiency Meter (openeemeter.org)	2015
	Data Scientist	
	Oroeco (oroeco.com)	2014
	Scientific Software Engineer	
TEACHING	University of Chicago	2016
	Introduction to programming for Public Policy, Computation for Public Policy	
	Northwestern University	2008–2013
	Assistant: Probability & Stochastic Processes, Mechanics, Real Analysis	
SKILLS	Python (numpy, scipy, pandas, sklearn, matplotlib)	
	SQL (PostgreSQL), Java, JavaScript (D3.js), Ruby (on Rails)	
	Geospatial (PostGIS, GDAL, OpenStreetMap, Mapnik, QGIS, Leaflet)	
	git, bash, GNU/Linux, L ^A T _E X	
	Probability, Causal Inference, Differential Geometry, Partial Differential Equations	
	Fluent in Russian	
REFERENCES		
	• Dan Black, danblack@uchicago.edu	
	Professor, Harris School of Public Policy, University of Chicago	
	• Matt Gee, mattgee@gmail.com	
	Research Fellow, Urban Center for Computation and Data	
	• Emile Jorgensen, Emile.Jorgensen@cityofchicago.org	
	Epidemiologist, Chicago Department of Public Health	
	• Steve Zelditch, s-zelditch@northwestern.edu	
	Wayne and Elizabeth Jones Professor of Mathematics, Northwestern University	