

Eric Potash

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EXPERIENCE **University of Chicago** 2017–Now
Postdoctoral Scholar (Advisor: Dan Black), Harris School of Public Policy

EDUCATION **Northwestern University** 2009–2014
Ph.D. Mathematics (Advisor: Steve Zelditch)
Dissertation: Euclidean Embeddings and Riemannian Bergman Metrics

Columbia University 2005–2009
B.A. Mathematics with Honors, Columbia College Class of 2009
Thesis: An Application of Poincaré’s Fundamental Polyhedron Theorem

PUBLICATIONS **Randomization Bias in Field Trials to Evaluate Targeting Methods**
Economics Letters, Volume 167, June 2018, Pages 131–135.

Predictive Modeling for Public Health: Childhood Lead Poisoning
21st ACM SIGKDD Proceedings

Euclidean Embeddings and Riemannian Bergman Metrics
The Journal of Geometric Analysis, 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 **External Validation of a Predictive Model for the Primary Prevention of Childhood Lead Poisoning**
with Rayid Ghani, Emile Jorgensen, Cortland Lohff, Nik Prachand, 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**
Washington Monthly, 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 Schulz, Elvin D. Roberts, and University of Chicago Center for Health Systems Research and Analysis.

Grant ID 73354. \$200,000.

INDUSTRY EXPERIENCE	University of Chicago Research Professional II, Center for Data Science and Public Policy	2014–2017
	Eric and Wendy Schmidt Data Science for Social Good Technical Mentor	Summer 2016
	Open Energy Efficiency Meter (openeemeter.org) Data Scientist	2015
	Oroeco (oroeco.com) Scientific Software Engineer	2014
TEACHING	University of Chicago Introduction to programming for Public Policy, Computation for Public Policy	2016
	Northwestern University Assistant: Probability & Stochastic Processes, Mechanics, Real Analysis	2008–2013
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	<ul style="list-style-type: none">• 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	