

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> , accepted.	
	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	
	An Asymptotic for the Representation of Integers as Sums of Triangular Numbers <i>Involve</i> , 2008, no. 1, p. 111-121. (with A. Atanasov, R. Bellovin, I. Loughman-Pawelko and L. Peskin)	
WORKING PAPERS	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	An Evaluation of Predictive Modeling for Primary Prevention of Childhood Lead Poisoning with Rayid Ghani, Emile Jorgensen, Cortland Lohff, and Raed Mansour	
	Secondary 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 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 	