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, accepted.

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

An Asymptotic for the Representation of Integers as Sums of Triangular Numbers
Involve, 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 Its 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 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, LaTeX 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