

EXPERIENCE	University of Illinois Urbana-Champaign Research Scientist, Institute of Sustainability, Energy, and Environment	2020–Now
	University of Chicago Postdoctoral Scholar (Advisor: Dan Black), Harris School of Public Policy	2017–2020
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 Thesis: An Application of Poincaré’s Fundamental Polyhedron Theorem	2005–2009
PUBLICATIONS	How to estimate soil organic carbon stocks of agricultural fields? Perspectives using ex-ante evaluation <i>Geoderma</i> 411, 115693 (2022). E. Potash , K. Guan, A Margenot, DK Lee, E DeLucia, S Wang, C Jang	
	A Bayesian Approach to Recreational Water Quality Model Validation and Comparison in the Presence of Measurement Error <i>Water Resources Research</i> , e2021WR031115 (2022). E. Potash and S. Steinschneider	
	Algorithmic Fairness: Choices, Assumptions, and Definitions <i>Annual Reviews of Statistics</i> 8, 2021. S. Mitchell, E. Potash , S. Barocas, A. D’Amour, K. Lum	
	Validation of a Machine Learning Model to Predict Childhood Lead Poisoning <i>JAMA Network Open</i> 3 (9), e2012734-e2012734 E. Potash , R. Ghani, J. Walsh, E. Jorgensen, C. Lohff, N. Prachand, R. Mansour	
	Randomization Bias in Field Trials to Evaluate Targeting Methods <i>Economics Letters</i> , Volume 167, June 2018, Pages 131–135. E. Potash	
	Predictive Modeling for Public Health: Childhood Lead Poisoning <i>21st ACM SIGKDD Proceedings</i> E. Potash , J. Brew, A. Loewi, S. Majumdar, A. Reece, J. Walsh, E. Rozier, E. Jorgensen, R. Mansour, R. Ghani	
	Euclidean Embeddings and Riemannian Bergman Metrics <i>The Journal of Geometric Analysis</i> , January 2016, Volume 26, Issue 1, pp 499-528 E. Potash	
OTHER WRITING	Why It’s So Hard to Find Out Where the Candidates Stand <i>Washington Monthly</i> , November 2016	
INVITED TALKS	Environmental Policy Institute at Chicago (EPIC) Workshop Can Health Departments Prevent Childhood Lead Poisoning?, 5/15/2018	
	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

CONFERENCE
PRESENTATIONS**Predicting Soil Organic Carbon Variability with Applications for Sampling Design**

American Geophysical Union Fall Meeting 2022, Chicago, IL, December 2022

A Bayesian Approach to Recreational Water Quality Model Validation and Comparison in the Presence of Measurement Error

American Geophysical Union Fall Meeting 2022, Chicago, IL, December 2022

REVIEWER

Environmental Science and Technology, JAMA Network Open, Earth and Space Science

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

2016–2020

Multilevel Regression Modeling for Public Policy (Winter 2020)

Introduction to Program Evaluation (Spring 2019, Winter 2020)

Introduction to Programming for Public Policy (Spring 2018, 2016)

Northwestern University

2008–2013

Assistant: Probability & Stochastic Processes, Mechanics, Real Analysis

SKILLS

Python (numpy, scipy, pandas, sklearn, matplotlib)

R (tidyverse, rstanarm)

SQL (PostgreSQL), Java, JavaScript (D3.js), Ruby (on Rails)

Geospatial (PostGIS, GDAL, OpenStreetMap, Mapnik, QGIS, Leaflet)

git, bash, GNU/Linux, L^AT_EX

Fluent in Russian

REFERENCES

- Dan Black, danblack@uchicago.edu
Professor, Harris School of Public Policy, University of Chicago
- Shira Mitchell, sam942@mail.harvard.edu
Statistician, Civis Analytics
- Emile Jorgensen, Emile.Jorgensen@cityofchicago.org
Epidemiologist, Chicago Department of Public Health