

EXPERIENCE	University of Chicago	2017–Now
	Postdoctoral Scholar, Harris School of Public Policy	
	<ul style="list-style-type: none">• Policy analysis of lead poisoning prevention programs for the Chicago Department of Public Health	
	University of Chicago	2014–2017
	Research Professional II, Center for Data Science and Public Policy	
	<ul style="list-style-type: none">• Predictive modeling of lead poisoning for the Chicago Department of Public Health• Predictive modeling of hazardous waste violations for the U.S. Environmental Protection Agency and New York State Department of Environmental Conservation	
	Eric and Wendy Schmidt Data Science for Social Good	Summer 2016
	Technical Mentor	
	<ul style="list-style-type: none">• Mentored graduate students in analysis and development of data science solutions for public policy problems.	
	University of Chicago	Winter 2016
	Lecturer, Harris School of Public Policy	
	<ul style="list-style-type: none">• Computation for Public Policy graduate course	
	Open Energy Efficiency Meter (openeemeter.org)	2015
	Data Scientist	
	Statistical learning of residential energy consumption baselining and forecasting.	
	Eric and Wendy Schmidt Data Science for Social Good	Summer 2014
	Summer Fellow	
	<ul style="list-style-type: none">• Modeling maternal health outcomes for the government of Mexico.• Electricity load disaggregation for Pecan Street Research Institute.	
	Oroeco (oroeco.com)	2014
	Scientific Software Engineer	
EDUCATION	Collecting data and building carbon footprint models and visualizations.	
	Northwestern University	2008–2013
	Teaching Assistant: Probability & Stochastic Processes, Mechanics, Real Analysis	
	Northwestern University	2009–2014
	Ph.D. Mathematics	
	Dissertation: Euclidean Embeddings and Riemannian Bergman Metrics	
	Advisor: Steve Zelditch	
	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	
	Forthcoming, Economics Letters.	
	Predictive Modeling for Public Health: Childhood Lead Poisoning	
	21st ACM SIGKDD Proceedings	
	Why Its So Hard to Find Out Where the Candidates Stand	
	Washington Monthly, November 2016	

An Asymptotic for the Representation of Integers as Sums of Triangular Numbers

Involve 1 (2008), no. 1, p. 111-121. (with A. Atanasov, R. Bellocin, I. Loughman-Pawelko and L. Peskin)

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.

VOLUNTEER

Habitat 2030

Chicago-area ecological habitat restoration and stewardship.

2013–Now

Open Source Ecology

Building and documenting an open source compressed earth brick press and sustainable, modular, low-cost house.

2011–Now

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^AT_EX
Probability, Causal Inference, Differential Geometry, Partial Differential Equations
Fluent in Russian

REFERENCES

- 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
- Rayid Ghani, rayid@uchicago.edu
Research Director, Computation Institute, University of Chicago
- Steve Zelditch, s-zelditch@northwestern.edu
Wayne and Elizabeth Jones Professor of Mathematics, Northwestern University