

Professional Experience

2010–2013 **Assistant Professor/Courant Instructor**, Courant Institute, New York University.

- Cutting-edge mathematics research, published in top-ranked journals
- Expertise: Probability, Functional Analysis, Metric Geometry, Game Theory and Statistics
- Multi-disciplinary collaborations: Political Sci., Biology, Computer Sci., Physics and Statistics
- Courses taught: Probability & Statistics, Modern Geometry and Linear Algebra
- Assisted course in Mathematical Modeling with Applications to Social Science
- Organized reading groups on Economics and Network Science
- Supervised 3 Masters Theses and 8 Undergraduate Research Projects
- Full list of publications & projects: <http://bit.ly/14301Sk>

2004–2010 **Graduate Teaching Associate**, University of Arizona, Tucson.

- Courses taught: Calculus, Linear Algebra, Math in Modern Society and Statistics

Summer 2005 **Research Engineer**, Applied Research Labs, University of Texas, Austin.

- Predictive modeling of surface ship trajectories in MATLAB using sonar data.

Education

2004–2010 **PhD**, *Mathematics*, University of Arizona, Tucson.

Thesis Title: Geodesics of Random Riemannian Metrics

2001–2004 **BS**, *Mathematics*, University of Texas, Austin.

Professional Strengths

- Data Reporting: designing reports for effective communications between teams
- Data Strategy: using data science to identify and accomplish strategic objectives
- Project Management: guiding cross-functional teams from start to finish
- Statistical Modeling: solving analytical problems with quantitative reasoning
- Networks: recognizing people as people, not just data points
- Values: let's use data science and statistics to make the world a better place

Programming Languages and Software

Skilled Excel, Mathematica, MATLAB, \LaTeX

Learning Clojure (Java), ClojureScript (JavaScript), Haskell, neo4j, Python, R, Storm