

Jared P. Lander

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Education

Columbia University, Graduate School of Arts & Sciences | New York, NY | 2007-2009

GPA 3.926

Master of Arts in Statistics

Muhlenberg College | Allentown PA | 2000-2004

Cumulative GPA 3.748, Major GPA 3.788, Magna Cum Laude with Honors in Mathematics, Dean's List

Bachelor of Science in Mathematics, Business Administration Minor

The Robert W. and Edythe M. Mull Award for Excellence in Mathematics

Member of Pi Mu Epsilon, a national honorary mathematics society

Highlights

Served as statistician in **Yangon, Myanmar**

Modeled **voter turnout** for New York City Election

Thesis on **NYC pizza** published by major food news resources Analyzed global survey by the **World Health Organization**

Relevant Experience

Bardess Group | New York, NY | 2008-Present

Senior Consultant for Business Intelligence & Statistics

- Designed rapid front end analysis of large datasets for company's clients
- Integrated the R statistical package into services generally built in QlikView
- Trained clients in using and developing with QlikView

World Health Organization | New York, NY | 2010

Statistician

- Developed multilevel model of noncommunicable disease contraction in the developing world
- Analyzed data from the World Health Survey
- Designed visual display of statistical model allowing for easier understanding of the measured effects

Association of Southeast Asian Nations Humanitarian Task Force | Yangon, Myanmar | 2009

Statistician

- Analyzed survey data from Periodic Review of Cyclone Nargis Recovery Efforts using databases and statistical packages
- Constructed indicators of well-being for GIS mapping
- Led technical team in developing models and analysis for Lead Scientists

Melinda Katz for Comptroller | New York, NY | 2009

Voter Analyst

- Developed statistical model to predict voter turnout in specific Election Districts
- Provided technical expertise for Campaign Headquarter workers

Columbia University | New York, NY | 2008-2009

Statistician (under Dr. Andy Gelman)

- Analyzed change in candidates' favorability caused by National Nominating Conventions from 1984 through 2004
- Examined Congressional candidate performance in comparison to Presidential candidate performance
- Investigated political bias in Congressional districting from 1896 to 2008

Columbia University | New York, NY | 2008-2009

Statistician (under Dr. Richard Garfield)

- Developed methods to reconcile death rolls in New Orleans resulting from Hurricane Katrina
- Searched for patterns and structure in causes of death and victim characteristics

Sky IT Group | New York, NY | 2006-2008

Senior Consultant/Technical Sales

- Managed a team of four people in developing numeric and graphical analysis utilizing data mining tools
- Provided pre-sales expertise through demonstrations and proof-of-concepts

City of Hope Cancer Center | New York, NY | 2006

Development Assistant

- Tracked donations and their values and contributors in a database for charity auction honoring Fran Drescher
- Event raised over \$250,000 for cancer research

Ron Shapiro Management | New York, NY | 2005

Assistant

- Maintained office communications, supplies and handled artists' special needs
- Managed logistics such as backstage passes, travel and contracts for artists like Regina Spektor, Jace Everett and Julie Roberts

Athletics

Ice Hockey Goaltender | Columbia University, Muhlenberg College | 2000-2004, 2007-2009

Lacrosse Goaltender, Defense, Long Stick Midfielder | Muhlenberg College | 2001-2002

Research

Humanitarian Survey; World Health Organization; 2010

Along with Dr. Richard Garfield from Columbia University and Dr. Gauden Galea from the World Health Organization I looked for a relationship between level of income and the contraction of noncommunicable diseases such as diabetes, angina and alcoholism. We found—using multilevel models—that, in general, the mortality rate was lower in more highly developed nations. However, as countries became richer, the wealthy part of the population suffered more from noncommunicable diseases while in poorer countries the poor part of the population suffered more.

Humanitarian Survey; UN/ASEAN Humanitarian Task Force; 2009

During November and December of 2009 I served as statistician for the third Periodic Review of Myanmar's recovery since last year's cyclone Nargis. I led a data analysis team in support of the lead scientists' authorship of a final report. It was my responsibility to provide data for GIS mapping and to develop models that determine what areas were affected the most and what populations were most at risk for further harm. The work is being published and will dictate future relief aid provided to the disaster region.

New York City Pizza

My master's thesis was a statistical analysis of New York City pizza and what made one pizzeria more popular than another. Using ratings from MenuPages I determined that having a coal burning oven was the single greatest factor in determining popularity, followed by a wood burning oven. The paper was covered by Slice, Serious Eats, Midtown Lunch, NBC New York, Revolution Analytics and various other statistics and food blogs and has been presented by me to a number of statistics-related groups.

Political Research; Dr. Andy Gelman; Columbia University; 2008 - 2009

While attending Columbia, I was involved in three political science projects with Dr. Gelman. The first project involved data collecting and cleaning of opinion polls on both the Democratic and Republican Presidential candidates before and after the national nominating conventions going back to 1984. The goal was to estimate a candidate's change in favorability following his convention and to explain moves in either direction. The results of the research can be found on Dr. Gelman's blog, redbluerichpoor.com.

The second project, also for posting on his blog, examined the pundit notion that "the Democrats turned in a disappointing performance in Congressional races" in the recent national election. We compared the increase in Congressional Democratic votes to the increase in Democratic Presidential votes from 2004 to 2008. The data suggested that the Democrats performed as well, if not better, in Congressional races as Barack Obama fared in his race.

The latest project is in conjunction with Dr. David Epstein of Columbia's Political Science Department. It is an analysis of historical election data to address political bias in Congressional districting. The goal is to develop a new method of identifying and examining gerrymandering. The findings were presented as a paper at the American Mathematical Society last January where I was one of the authors.

Health Sciences Research; Dr. Richard Garfield; Columbia University; 2008 - 2009

I was engaged in statistical and analytic support to Dr. Garfield of Columbia's School of Nursing and Dr. John Mutter from Columbia's Earth Institute in their study of the socioeconomic, health and geographic factors affecting deaths in New Orleans following Hurricane Katrina. We are reconciling a self-reporting death list with an official State list that is thought to under represent Katrina related deaths. The goal is to determine what disparities, if any, resulted in a greater proportion of deaths among certain populations as opposed to others. The analysis will result in journal article preparation in which I will be one of the authors.

Statistical Consulting; Dr. Greg Cicconetti; Muhlenberg College; 2003

The Biology Department conducted experiments to measure the damage caused by insects to trees in the College's arboretum. Under Dr. Cicconetti's leadership, another student and I helped examine numerous techniques for assessing leaf damage to determine which method was best suited for capturing accurate results. Our analysis showed that human assessment of the proportion of leaf damaged provided better data than NASA imaging software. The results were used by the Biology Department to improve research and were presented at a College poster session.