

Harry Kim
1930 Channing Way Apt 1D
Berkeley, CA 94704

510-508-2639
harrykim@stat.berkeley.edu
<http://www.stat.berkeley.edu/~harrykim>

Education

UNIVERSITY OF CALIFORNIA AT BERKELEY

Ph.D Statistics

May 2011

- Advisors: Bin Yu and Cari Kaufman
- GPA: 3.9/4.0

UNIVERSITY OF CALIFORNIA AT BERKELEY

B.A. Economics, B.A. Mathematics, and B.A. Statistics

May 2005

- Graduated in 3.5 years with 3 majors.
- GPA: 3.6/4.0 (Overall), 3.8 (Economics), 3.8 (Mathematics), 3.8 (Statistics)
- Honors & Awards: Steinmetz Memorial Scholarship, Ehrman Scholarship, Parikh Scholarship (annually awarded to the top 5 engineering science majors at UC Berkeley)

Dissertation & Publications

Dissertation: Spatio-temporal point process models for the spread of avian influenza virus (H5N1)

- Examined the key factors that contribute to H5N1 spread through exploratory data analysis.
- Quantified the relationship between the determined factors and H5N1 dispersal in Turkey with a statistical model based on self-exciting point process.
- Devised three fitting procedures to cope with the flat likelihood of the proposed model and an algorithm to simulate the future disease spread, which can serve as a guideline for establishing quarantine zones.

Publication: Spatio-temporal point process models for the spread of avian influenza virus (H5N1)

- In progress, to be submitted to the Journal of the American Statistical Association.

Research & Work Experience

Department of Remote Sensing, Chinese Academy of Science

Beijing, China

Visiting Researcher

June 2008 - August 2008

- Studied the global spread of avian influenza (H5N1) and investigated the migratory patterns of identified bird species that are carriers of H5N1 through exploratory data analysis.
- Presented the evidence to researchers at the Chinese Academy of Science that migratory birds are unlikely contributors to the epidemic.
- Designed a more flexible modeling approach (self-exciting point process) than the conventional epidemiology method to incorporate the triggering mechanism of the epidemic.

UC Berkeley Police Department (UCPD)

Berkeley, CA

Pro bono Consultant

October 2006

- Developed a statistical model (spatial logistic regression) for car theft patterns in Berkeley and determined the frequent crime locations and seasonality of theft near the university campus.
- Recommended installation of surveillance cameras in the identified crime hotspots and advised police officers to heighten their security measures annually during the month of May.
- Car theft rate in Berkeley fell by 7% in the following year and by 42% four years later.

Department of Statistics, UC Berkeley
Graduate Student Instructor

Berkeley, CA
September 2005 - May 2011

- Taught four courses in Applied Statistics and Statistical Computing to 70 -100 students per course.
- Partook in the development of a new introductory statistics course with emphasis on graphing and simulation.

Department of Statistics, UC Berkeley
Statistics VIGRE Undergraduate Research Assistantship

Berkeley, CA
September 2004 - May 2005

- Implemented an algorithm that automatically detects the spatial and temporal locations of traffic congestions on Highway I-80 from low resolution video recordings.

Lawrence Livermore National Lab (LLNL)
Research in Industrial Projects for Students (RIPS)

Livermore, CA
June 2004 - August 2004

- Devised more accurate numerical schemes that approximate solutions to the Boltzman Transport Equation, which were later implemented by LLNL.
- Delivered a comprehensive presentation and a detailed report with collaborators to researchers at LLNL and UCLA.

Skills & Interests

Computer languages & applications: R, Matlab, C, SAS, STATA, LaTeX, MS Office, OSX, Unix.

Travel: Traveled to 44 countries in Europe, Asia, the Middle East, and Africa. Visited all seven wonders of the world. Trekked to Mt. Everest for 17 days. Lived in Paris, Beijing, and Seoul.

Magic: 9 years of performing experience. Has a Youtube channel featuring card magic with total view count of 43000+ since 2007 and received an offer for Youtube partnership due to its popularity.

Cooking: Completed a three-month training at a professional Japanese culinary school, Dongwon Sushi Academy.

Languages: Fluent in English and Korean, proficient in Japanese.