Xiaofei (Susan) Wang

109 Church St. Unit 407
New Haven, CT 06510

(561) 289-2713
swang87@gmail.com
xiaofei-wang.com

Education	**Yale University**	08/2009 – present
	Ph.D., Statistics (anticipated graduation 05/2014)	
	Thesis Topic: Graphical product partition models for multidimensional Bayesian change point detection	
	University of California, Berkeley	08/2004 – 05/2006
	B.A., Applied Mathematics	
	GPA: 3.821 (Graduated with High Distinction)	

Awards & Achievements
Joint Statistical Meetings Data Expo Competition 2013, Second Place (08/2013)
YGCC Annual Case Consulting Competition, First Place (03/2013)
Leonard J. Savage Writing Prize (05/2012)
Attained Associateship in the Society of Actuaries (08/2008)

Research Interests
Bayesian statistics, clustering, change point detection, big data, machine learning

Publications

Emerson, John W. and **XW**. "Advances in Big Data and High-Performance Computing." *Proceedings of the 2013 IASC Satellite for the ISI WSC and the 8th IASC-ARS Conference, August 21-23, 2013 (pp. 79-84).*

Emerson, John W. and **XW**. "Amazon EC2, Big Data and High-Performance Computing." *Statistical Computing and Graphics Newsletter*, July 2013, 23(1).

Ryslik, Gregory, and **XW**. *Exam 4/C Theoretical Knowledge & Exercises Preparation Textbook*. New Jersey: Actuarial Empire, 2013. Print.

XW, Byars, Sean G., and Stearns, Stephen C. "Genetic connections between lifespan and completed family size in the Framingham Heart Study." *Evolution, Medicine, and Public Health,* 2013.

Oatts, Julius T., **XW**, et al. "Effect of Alpha-2-Agonist Premedication on Intraocular Pressure after Selective Laser Trabeculoplasty." (in submission)

Work Experience

Mathematician/Quantitative Analyst, WeatherBill (now part of Monsanto)   01/2008 – 08/2009

- Simulated daily snowfall for 40 cities from temperature/rain data via machine learning algorithms
    - Optimized program for efficiency and scalability – reduced overall runtime by 60%
- Prepared customized weather risk analyses with proposed hedging solutions for large businesses in retail, energy, and outdoor entertainment industries
- Produced automated weather risk profile generator to provide dynamically populated factsheet based on client location and industry
- Priced simple and compound weather derivatives using R

Pension Actuary, Mercer   07/2006 – 01/2008

- Performed 20+ valuations projecting client firms' pension liabilities decades into the future
- Reported 7 client firms' liabilities in government accounting forms
- Managed data (up to 30,000+ records per project) – prepared data questions, updated data per client response
- Programmed 3 calculators used to estimate benefit for client's employees
- Tested 10+ retirement plans for discrimination in favor of executives

Other

Computer Skills:

Web Development	HTML, PHP, ColdFusion
Programming	C++, Java
Scripting	R, Python, Perl, Bash
Data	Stata, MySQL, Excel VBA

Languages: English, Mandarin

Interests: Cooking, singing, hiking, badminton, soccer, Coursera