

Wei Wang

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Skills

- **Languages**, proficient in Python and R; familiar with C/C++.
- **Tools & Applications**, MySQL, ggplot2, D3.js, Git, Bash, Emacs.
- **PhD Research Areas**, Bayesian Statistics, Causal Inference, Survey Methodology, Gaussian Processes, Graphical Models.

Education

- 2009–2015 **PhD, Statistics**, *Columbia University*, New York, NY.
- Co-Advisers: Andrew Gelman and Michael Sobel
- 2005–2009 **BS, Statistics**, *University of Science and Technology of China*, Hefei, China.

Experience

- Jan–Mar, 2015 **Fellow**, *Insight Data Science Fellows Program*, New York, NY.
- Built *Curatir* (<http://curatir.weiwang.io>), an art explorer for New York City.
 - Scraped major NYC museums' online catalogs and wikipedia articles of painters; Used TFIDF and SVD on wikipedia articles to analyze similarity between artists; developed a web application based on Flask and Bootstrap and deployed it on Amazon EC2.
- May–Aug, 2013 **Research Intern**, *Microsoft Research*, New York, NY.
- Developed methods to handle highly biased on-line opt-in survey collected on Xbox gaming platform for election predictions and delivered predictive power on par with traditional poll aggregators that rely on expensive polling data.
 - Story was picked up by media including the *New York Times* and *New Scientist*.
- Jul–Aug, 2011 **Consultant**, *World Bank*, Washington, DC.
- Built the R-based back-end of World Bank *Comparative Living Standards Project* web interface for interactive statistical analysis and visualization of World Bank survey database.
 - Implemented standard statistical analysis tools such as Linear Regression, Logistic Regression, Scatter Plot and Histogram on a web interface.
- May–Jul, 2011 **Consultant**, *International Finance Corporation*, Washington, DC.
- Built model for performance of developmental projects financed by the International Finance Corporation. Identified important factors in project performance using cross-validation and improved over the base model by 2%.
- 2009 - 2015 **Graduate Researcher**, *Columbia University*, New York, NY.
- Published three research papers on peer-reviewed journals on Bayesian hierarchical modeling of structured data and causal inference.
- 2009 - 2015 **Graduate Teaching Fellow**, *Columbia University*, New York, NY.
- Served as graduate instructor twice for advanced undergraduate statistics courses.

- Served as teaching assistant for courses including Bayesian Data Analysis, Data Mining, Applied Data Science, Generalized Linear Models, Exploratory Data Analysis and Visualization
- Received 2011 Department of Statistics *Minghui Yu* Teaching Assistant Award.

Publications

Toivgoon Aira, Wei Wang, Marion Riedel, and Susan S Witte. Reducing risk behaviors linked to noncommunicable diseases in mongolia: A randomized controlled trial. *American journal of public health*, 103(9):1666–1674, 2013.

Wei Wang and Andrew Gelman. Difficulty of selecting among multilevel models using predictive accuracy. *Statistics and Its Interface*, 2015.

Wei Wang, David Rothschild, Sharad Goel, and Andrew Gelman. Forecasting elections with non-representative polls. *International Journal of Forecasting*, 2014.

Awards

2012	Teaching Assistant Award, <i>Department of Statistics, Columbia University</i> .
2009, 2008	National Lizhi Scholarship of China.