# Wei Wang


CONTACT INFORMATION

547 Riverside Drive APT 3D
New York, NY 10027

Cell: 917-558-7720
Email: ww2243@columbia.edu


EDUCATION

**Columbia University**, New York, United States

*Ph.D., Statistics* September 2009 – present

- Co-adviser: Andrew Gelman
- Co-adviser: Michael Sobel
- Expected graduation date: May 2015

**University of Science and Technology of China**, Hefei, Anhui, China

*B.S., Statistics* September 2005 – June 2009

- Rank 2/63

RESEARCH INTERESTS

- Bayesian Hierarchical Models, Computational Social Science, Causal Inference, Survey Methodology, Missing Data Imputation

PUBLISHED PAPERS

- Wei Wang and Andrew Gelman. 2014. "Difficulty of Selecting among Multilevel Model using Predictive Accuracy". *Statistics and Its Interfaces*. Forthcoming.
- Wei Wang, Shard Goel, David Rothschild and Andrew Gelman. 2014. " Forecasting Elections with Non-Representative Polls". *International Journal of Forecasting*. Forthcoming.
- Aria Toivgoo, Wei Wang, Marion Riedel and Susan Witte. 2013. "Reducing Risk Behaviors linked to Non Communicable Diseases in Mongolia: A randomized controlled trial". *American Journal of Public Health*. Vol.103, No.9, pp 1666-1674.

SUBMITTED PAPERS

- Michael Sobel, David Madigan and Wei Wang. Meta-Analysis: A Causal Framework, with Application to Randomized Studies of Vioxx.

WORK IN PROGRESS

- "Bayesian Non-parametric Modeling of Causal Effect in Meta-Analysis"
- "Multiple Imputation Model for Time-Series Cross-Sectional Social Survey Data". Collaborators: Ben Goodrich, Jonathan Kropko, Andrew Gelman.

AWARDS

- Best Poster Award (3 out of 25), The 8$^{th}$ International R Users Conference, June 2012 (for "Multilevel Regression and Poststratification of Survey Data").
- Columbia University Department of Statistics Minghui Yu Teaching Assistant Award, 2011.

COMPUTING SKILLS

- *Programming Languages*: R, Python, C/C++.
- *Tools & Applications*: Unix Command Line, Emacs, Git, Regex, Hadoop, SQL.

## Work Experience

- **Microsoft Research**, New York City, United States

  *Research Intern* May – August 2013

  Applied novel Bayesian hierarchical modeling to a highly biased vote intention survey placed in the Xbox gaming platform during the 2012 election campaign and obtained highly accurate state-by-state election outcome prediction that is equivalent to the state-of-the-art results from established sources.

- **World Bank**, Washington DC, United States

  *Short-term Consultant* at the Research Unit, Poverty and Inequality Group August 2011

  Built the statistical back-end of the World Bank Comparative Living Standards Project using R. (http://iresearch.worldbank.org/clsp/index.aspx#).

- **International Finance Corporation** (World Bank Group), Washington DC, United States

  *Short-term Consultant*, Development Outcome Tracking Group May – July 2011

  Worked on building predictive models for outcomes of development projects financed by the International Finance Corporation.

## Teaching Experience

- **Graduate Instructor**
  W1211 Introduction to Statistics with Calculus, Columbia University, Summer 2012/Fall 2012
  *An introductory statistics course for advanced undergraduate students.*

- **Teaching Assistant**
  Various graduate and undergraduate courses, including
  Bayesian Data Analysis, Statistical Inference, Data Mining,
  Applied Data Science, Multilevel Models
  Linear Regression, Generalized Linear Models.

## Professional Affiliation

American Statistical Association

Institute of Mathematical Statistics

International Society of Baysian Analysis