

YUCHEN WANG

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RELEVANT EXPERIENCE

Associate Director, Marketing Science, In4mation Insights, Massachusetts **September 2015 – Present**

- Led a team of 4 analysts, in charge of day-to-day communication with clients and statistical analysis and software development for marketing, product development, and regulatory requests.
- Participated in projects of market structure, segmentation, and choice modeling; experienced in advanced models like hierarchical Bayesian models, structural equation models, latent class clustering, and nested logit regressions.
- Developed a scoring system for product superiority by borrowing ideas from spatial statistics, which was then widely used for over 30 products.
- Developed dashboards for standardized statistical analysis on public health databases in *Shiny* and *R*.

Research Assistant, University of Missouri-Columbia, Missouri **August 2014 – May 2015**

- Worked with Ph.D. students on Bayesian computation problems. By caching candidate samples in a low-acceptance MCMC algorithm and vectorization (*Fortran*), I sped up the algorithm by 30x and developed it into the *MethyBayes* package (R-CRAN).
- Parallelized a large-scale Bayes factor computation program (*Fortran*) using both *OpenMP* and *MPI*; Tuned for distributed computing on different kinds of high-performance computing clusters to achieve the best performance.

Research Assistant, East China Normal University, Shanghai, China **June 2012 - July 2014**

- Participated in a statistical process control project for tobacco manufacturing. Developed quality control models for high-frequency data (GBs/hour) based on a semi-parametric regression model.

EDUCATION

Master of Arts in Statistics, University of Missouri **January 2014 - July 2015**

- GPA 3.9 with A+ in Probability Theory, Advanced Linear Models and Bayesian Statistics.
- Took research credits in spatial statistics; developed *sppmix* package (GitHub) for fitting Bayesian mixture models to spatial point patterns.

Bachelor of Science in Statistics, East China Normal University **September 2009 - June 2013**

- Nominated for best Bachelor's thesis: *Residual Control Charts based on Semi-parametric Regression Models*.

Minor (36 credits) in Computer Science, Shanghai Jiao Tong University **February 2011 - June 2013**

RELATED SKILLS

Specialities in Statistics Advanced knowledge in mathematical statistics and statistical learning models for regression and classification; skilled in generalized linear mixed models; conversant with Bayesian statistics and its computations; familiar with spatial point pattern models.

Languages and Softwares Expert in *R* with 8+ years of experience. Author of 15+ *R* packages (GitHub: @wangyuchen); proficient in *dplyr* and other *tidyverse* packages.