YUCHEN WANG

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RELEVANT EXPERIENCE

Senior Analyst, Marketing Science, In4mation Insights, Massachusetts   **September 2015 – Present**
- Led a team of 4 analysts, in charge of statistical analysis and software development of marketing, consumer behavior, and public survey data.
- Participated in projects about market structure, segmentation, and choice modeling; experienced advanced models like hierarchical 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 an *R* interface framework for a C++ Bayesian Gibbs sampling library.

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 modeling; conversant with Bayesian statistics and computations; familiar with spatial point pattern models.

Languages and Softwares Expert in *R* with 7+ years of experience. Developed 15+ *R* packages (GitHub: @wangyuchen); proficient in *dplyr* and other *tidyverse* packages. Familiar with *SAS* and other statistical computing softwares.