YUCHEN WANG

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EDUCATION

Master of Arts in Statistics — **expected June 2015**
Department of Statistics, University of Missouri-Columbia — Missouri, United States
Bachelor of Science in Statistics — **June 2013**
Department of Statistics and Actuarial Science, East China Normal University — Shanghai, China
Minor (36 credits) in Computer Technology and Application — **June 2013**
Department of Computer Science and Engineering, Shanghai Jiao Tong University — Shanghai, China

RELEVENT EXPERIENCE

Research Assistant, East China Normal University, Shanghai — **July 2012 – December 2013**
- To apply my statistics knowledge and programming skills into practice, I persuaded professor Xiaolong Pu to let me participate in his project as a student research assistant about statistical process control in tobacco processing.
    - The only undergraduate student in a research team of 7 consists of graduate students and faculties.
    - Designed the control plan for tobacco dehumidification process under guidance, which is the most critical and complicated control unit among all tobacco processing processes.
    - Two papers were completed (unpublished): one is on semi-parametric regression model for clustered data and the other is on design and implementation of a quality control software.
- With the project moved into a new phase, the team expanded to 21 members. After graduation, I was hired as a full-time research assistant and became a team leader.
    - Instructed new members to learn about previously used models and programs. Tutored 7 members once a week to re-write previous programs in a unified manner.
    - Developed an R package based on those re-written programs, which contains raw data, data cleaning methods, statistical algorithms and visualization methods used in the project.
    - A paper discussing ridge estimators in models with correlated covariates is in review.

Cluster Administrator, East China Normal University, Shanghai — **March 2013 – December 2013**
- Built the high-performance computing cluster for School of Finance and Statistics, East China Normal University, which provides web-based cluster computing environment of R and MATLAB to graduate students.
- Responsible for cluster configuration, maintenance, access management and manual writing.

Keynote lecture: *R and Object-oriented Statistical Analysis*, 5th **China-R Conference, Shanghai** — **November 4, 2012**
- Recommended by professor Yincai Tang to give a 45 minutes lecture about object systems in R.
- Introduced the usage of S3, S4 and R5 objects in R.
- Explained how these object systems can be utilized to make analysis more simple and accurate.

Operations and Maintenance Intern, Digital Resource, Shanghai — **January 2011 – February 2011**
- Responsible for operation and maintenance for Shanghai Testing Center's information system.
- Participated in the construction of information infrastructure for Advanced Financial School of Shanghai Jiao Tong University.
- Experienced and became interested in computer networks.

Analyst Intern, Shanghai Association for Quality, Shanghai — **July 2010 – August 2010**
- Conducted the customer satisfaction survey sampling for the Xujiahui business circle. Interviewed over 1,000 customers.
- Responsible for street interview, data entry, analysis and reporting writing. Experienced the whole cycle of survey sampling.

SKILLS

Statistical Computing: Outstanding skills in R. Developer and maintainer of a CRAN package *jtrans*. More repos on my GitHub: `http://www.github.com/wangyuchen`. Proficient in SAS and SPSS for standard statistical analysis.

General Purpose Programming: Extensive object-oriented programming experience with C++. Experience with Java.

Operating Systems: Strong interest in Unix-like systems, especially in the aspect of server management.

Specialities in Statistics: Semi-parametric models; Longitudinal data; Time series analysis; Bayesian analysis; Nonparametric methods and other computationally intensive statistical methods.

Mathematical Modeling: Adept at MATLAB and LINGO during Mathematical Contest in Modeling. Experience with Octave and Gnuplot during the *Machine Learning* course on Coursera.

Others: Effective in *knitr*, in which I can combine my favorite markup languages (Markdown/LaTeX) with code/outputs produced by a script language (R).

Web: Web data crawler; Spatial analysis and geocoding; Web-based data visualization using interactive plots; Experience with HTML and CSS; Blog in Jekyll and builder of `http://www.biostat.com.cn`.

HONORS

- *Say Goodbye to Copy and Paste in Statistical Analysis*, 1st R salon, East China Normal University   **Dec 18, 2013**
- *R and Object-oriented Statistical Analysis*, 5th China-R Conference, Shanghai   **Nov 4, 2012**
- **Successful Participant**, Mathematical Contest in Modeling, COMAP   **Mar 2012**
- **Third Price**, Mathematical Contest in Modeling, East China Normal University   **Oct 2011**