Yunqiu Yao

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EDUCATION

Columbia University

New York, NY

Master of Science, Biostatistics/Theory and Method Track

May 2019

- Relevant Coursework: Data Science (R Programming), Probability, Inference, Linear Regression, Generalized Linear Regression, Survival Analysis, Statistical Learning, etc.
- Teaching Assistant for Applied Regression Models: tutoring students on SAS

Shanghai Jiao Tong University

Shanghai, China

Bachelor of Science, Food Science and Engineering

June 2017

- Georgia Institute of Technology (Summer Program)
- Academic Progress Scholarship, Academic Excellence Scholarship

RELEVANT EXPERIENCE

Data Analyst Intern

Shanghai, China

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Dec. 2016 –Feb. 2017

- Wrote SAS and SQL scripts to produce weekly sales report for THE NORTH FACE and SEPHORA
- Implemented cluster analysis in SAS to analyze 1.86 million purchase records from Haagen-Daz
- Presented key findings to supervisor and contributed to recommendations for future marketing strategies for different groups with different purchase preference and habits
- Collaborated with 3 teammates on the construction of a recommendation engine for L'OCCITANE, including the data cleaning, cluster analysis and association analysis in SAS Enterprise Miner

Empirical Bayes (EB) Method for Haplotype-based GWAS

Shanghai, China

Research Assistant, Shanghai Jiao Tong University

Jan. 2016 – Oct. 2016

- Utilized R to collaborate on the construction of a linear mixed model (LMM) for GWAS with EB
- Spearheaded the initiative to apply the constructed EB-LMM model to haplotype-based GWAS, and applied to the genome of 1092 subjects
- Identified 17 significant haplotype blocks and inferred 3 genes associated with the trait of interest
- Drafted report based on the study findings for presentation to PI overseeing the research

Proteome-wide Association Study for Colorectal Cancer

Shanghai, China

Research Assistant, Shanghai Jiao Tong University

Jan. 2016 - Oct. 2016

- Standardized and converted proteomic data from 95 cases and 32 controls into two integrated matrices
- Introduced the Protein Interaction Network (PPI) paired the mutant proteins with the neighbors
- Applied GLM in R to identify the key mutant proteins significantly affecting neighbors' expression values
- Performed BH and found 58 proteins out of 1189 candidates statistically significant for colorectal cancer

Logistic Regression for Metastases in Renal Cell Carcinoma

Shanghai, China

Project team member, Shanghai Jiao Tong University

Nov. 2015 - Dec. 2015

- Designed a logistic analysis of case-control study on metastasis status of renal cell carcinoma
- Conducted the study for 58 patients with binary metastasis value and other 5 clinical features
- Performed logistic regression and identified 3 key determinants of metastases, and applied the model to other samples for the prediction of metastasis based on clinical features

SKILLS

• R, SQL, SAS, Python, Perl, MS Office (Word, Excel, PowerPoint)