**REX (RUIZHE) ZHOU**

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**EDUCATION**

**University of Chicago**  Expected Dec 2018

Master of Science Candidate: Computer Science (Data Analytics)

**University of Illinois at Urbana-Champaign**  May 2017

Bachelor of Science in Mathematics Major GPA: 3.78

Bachelor of Science in Statistics (Highest Distinction)

**TECHNICAL SKILLS**

* Language: Chinese (Mandarin)
* Programming: Python(Advanced), R(Advanced), SQL, Unix Shell & Mac OS, NoSQL,Markdown, JAVA

**WORKING EXPERIENCE**

**Haier Group Corporation** Qingdao, China

*Data Analyst Intern* June 2017 - August 2017

* Developed anomalies detection system by upgrading with algorithms, such as Time Series, LoF, using R, that keeps detection system consistently working for the next 10 years
* Boosted efficiency of extracting company’s data and systematisms of data administration by clustering company’s business indices based on rational attributes
* Co-conducted Haier Cloud platform, which prompts intracompany data and information sharing enhancing company’s operating efficiency meanwhile offers a business analysis to clients bringing up to a potential service development direction

**School of Public Affairs at Zhejiang University** Hangzhou, China

*Data Analysis Assistant* June 2014 - August 2014

* Interviewed with 10+ companies and identified potential issues that would influence enterprise development
* Interpreted analysis with statistical model and conducted solutions to initiate new industrial programming
* Generalized an estimate expected development prospect with potentially influential features, which would impact a billion RMB industrial revenue:
  + Elevator: energy conservation and seamless connection
  + Engineering Machinery: sectors of fields development and information based manufacturing
  + Bearing: transformation from micro bearings to precision bearings

**University of Illinois** Champaign, IL

*Teaching and Course Assistant* September 2016 – May 2017

* Held office hour for 200+ students helped them with R programming language and Python programming language
* Graded tests and homework for engineering calculus, biostatistics and numerical method

**ACADEMIC PROJECTS & ACTIVITIES & LEADERSHIP**

**Illinois Geometry Lab** August 2016

*Researcher*

* Co-worker of *Algebraic and Combinatorial Computational Biology*, research member of *Connecting algebraic geometry to phylogenies via singular value decomposition* Group (supervised by Dr. Ruth Davidson)
* Simulated genomic data and species tree with 10000 files (software: *Simphy*), and tested the robustness of the SVDquartets method by examining its behavior under a variety of model conditions (software: *INDELIBLE* and *SVDquartets.py*)
* Upgraded algebraic geometry tools by changing SVDscore norm generator, which shorten the cluster processing time from 4 hours to 30 minutes

**NFL Score Prediction vs. Statistical Analysis** Nov 2016

*Individual Scholar*

* Gathered meta data from *Armchair Analysis*, cleaned datasets from missing values and extreme values, and organized predictors from 26 datasets containing 4000+ observations and 20+ parameters
* Built up regression, factorial, and variable selection for exploring details, and generate score and won-lost predictions model with techniques in categorical models, model transformation, and regression analysis etc.

**Association of Data Science and Analysis** January 2016

*Committee*

* Collaborated with Research Park and composed case analysis in Twitter API, Machine learning with AlphaGo and Cisco using Hadoop etc. by making presentation to the university
* Held Data Fair with cooperating companies providing career opportunities to students who interests in data analysis