Rex (Ruizhe)Zhou

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Web & Git
trexwithoutt.github.io/

Programming
Python ★★★★★
R ★★★★★
SQL ★★★★☆
Markdown ★★★★☆
Latex ★★★★☆
NoSQL ★★★★☆
Java ★★★☆☆

OS Preference
MacOS ★★★★★
GNU/Linux ★★★★☆

Personal Skills


Languages
Chinese ★★★★★
English ★★★★☆

Certifications
Algorithms
by Stanford University on Coursera.
Certificate earned on January 4, 2017
Machine Learning
by Stanford University on Coursera.
Certificate earned on December 27, 2016

2017 - Now **University of Chicago** Chicago, IL, USA
Master of Science in Computer Science - Data Analytics

2015 - 2017 **University of Illinois at Urbana-Champaign** Urbana, IL, USA
Bachelor of Science in Mathematics
Bachelor of Science in Statistics (Highest Distinction)

Vocational Experience

06/17 - 08/17 **Data Analyst Intern** Haier Group Corporation, Qingdao, China
1. 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
2. Boosted efficiency of extracting company's data and systematisms of data administration by clustering company's business indices based on rational attributes
3. 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

06/14 - 08/14 **Data Analysis Assistant** School of Public Affairs at Zhejiang University, Hangzhou, China
1. Interviewed with 10+ companies and identified potential issues that would influence enterprise development
2.Interpreted analysis with statistical model and conducted solutions to initiate new industrial programming
3.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

09/16 - 05/17 **Teaching and Course Assistant** University of Illinois at Urbana-Champaign
1. Held office hour for 200+ students helped them with R programming language and Python programming language
2. Graded tests and homework for engineering calculus, biostatistics and numerical method

Projects Activities

08/16 **Illinois Geometry Lab** Undergraduate Researcher
1. 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)
2. 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)
3. Upgraded algebraic geometry tools by changing SVDscore norm generator, which shorten the cluster processing time from 4 hours to 30 minutes

11/16 **NFL Score Prediction vs. Statistical Analysis** Individual Scholar
1. 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
2.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.

01/16 **Association of Data Science and Analysis** Committee
1. 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
2. Held Data Fair with cooperating companies providing career opportunities to students who interests in data analysis