

Rex Ruizhe Zhou

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EDUCATION

UNIVERSITY OF CHICAGO

MS IN COMPUTER SCIENCE

Expected Dec 2018 | Chicago, IL

UNIVERSITY OF ILLINOIS

AT URBANA-CHAMAPGIN

BS IN MATHEMATICS

BS IN STATISTICS(HIGHEST
DISTINCTION)

Jan 2015 - May 2017 | Urbana, IL

LINKS

Github:// [trexwithoutt](https://github.com/trexwithoutt)

LinkedIn:// [rex-zhou](https://www.linkedin.com/in/rex-zhou)

SKILLS

TECHNICAL

Over 10000 lines:

R • Python • Markdown • \LaTeX

Over 2000 lines:

SQL • Java

Over 500 lines:

Ruby • HTML • NoSQL

Hadoop • Spark • PHP • Tableau

Operating System

Mac OS • Linux • Unix

PERSONAL

Team Player • Responsiveness

Time Management • Curiosity

Comprehensive Planning

CERTIFICATION

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

COURSEWORK

UNDERGRADUATE

Statistical Learning

Statistical Computing

Regression Analysis

Optimization

Introduction to Data Science

Abstract Algebra

Numerical Method

Complex Analysis

Abstract Linear Algebra

GRADUATE

Deep Learning

Algorithm

Database

Computer System

EXPERIENCE

HAIER GROUP CORPORATION | DATA SCIENCE INTERN

June 2017 - Aug 2017 | Qingdao, CHINA

- 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 systematizations 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

ZHEJIANG UNIVERSITY | RESEARCH ASSISTANT INTERN

June 2014 - Aug 2014 | Hangzhou, CHINA

- 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

U OF I AT URBANA-CHAMPAIGN | TEACHING ASSISTANT

Sept 2016 - May 2017 | Urbana, IL

- 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

RESEARCH & PROJECT

ILLINOIS GEOMETRY LAB | UNDERGRADUATE RESEARCHER

Sept 2016 - Nov 2017 | Urbana, IL

- 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 | INDIVIDUAL SCHOLAR

Nov 2016 | Urbana, IL

- 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 and etc.

ACTIVITIES

ASSOCIATION OF DATA SCIENCE AND ANALYSIS | COMMITTEE

Jan 2016 - May 2017 | Urbana, IL

- 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