

Xinyu Zhang

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Professional summary

Data analyst equipped with actuarial science knowledge in healthcare industry with two years of experience. Competencies include BI reporting, provider behavior analysis and business strategy analysis. Also passionate about statistical machine learning.

SOA ASA Candidate Passed P, FM, MFE, MLC and C exam.

Education

MS in Statistics	University of Texas at Dallas	GPA: 3.9	Expected: May 2019
BS in Mathematics, Minor in Finance	University of Arizona		Dec 2016

Experience

Data Analyst 2018-05 – Present

Chinese Community Health Care Association San Francisco, California

- Analyzing providers behavior and made adjustment to their capitated payment system.
- Visualizing the flow of claims and revenue.
- Developing flash reporting to enable near real-time business risk management.

Data Analyst Intern 2017-01 – 2018-04

Chinese Community Health Care Association San Francisco, California

- Developed interactive profit testing solution to help transform from fee for service to capitated payment system.
- Designed database solution to better categorize monthly claims and visualize it with flowchart.
- Studied Hierarchical Condition Categories (HCC) based risk score from CMS and use it to verify payment received from the insurance company.

Actuarial Intern 2016-05 – 2016-08

Anxin Agricultural Insurance Company Shanghai, China

- Assisted in quarterly solvency report to China Insurance Regulatory Commission (CIRC) under the scheme of China Risk Oriented Solvency System (C-ROSS).
- Pricing and loss ratio review on product in design.

School and personal study projects

- Predict Prudential life insurance risk class using random forest, gradient boost tree, GLM elastic net, SVM and neural network ensemble.
- Shiny app simulates midterm election result under various contamination settings.
- Predict cryptocurrency price using classic time series model and long term short term deep learning techniques.
- Predict Airbnb listing price and occupancy rate based on house features using decision tree, neural network and regression.
- Analyze the effect of right-to-carry laws on crime rate using fixed effect regression model with instrumental variables.

Skills SQL, Excel, R, R markdown, Shiny app, Python, Stata, Certified Base Programmer for SAS 9, MATLAB