

# Liu Qing

STATISTICAL ANALYST · DATA MINING SPECIALIST

Pudongxin District, Shanghai, China

☎ (+86) 131-6701-7220 | ✉ 77qingliu@gmail.com | 🌐 www.77qingliu.com | 📱 77QingLiu | 🌐 77qingliu

*"Influence the strategic direction of the company by data science"*

## Summary

Statistical/Data Analyst with strong analytical background and 3 years experience specializing in data processing, statistical analysis, data mining, medical research in Biometrics/Drug Development, Healthcare Data Analytics and Business Data Analytics. Medicine, Statistics, Computer science compound background. Involved in Python(Data Science) open source community, Kaggle Data Science community, and passionate about data mining and machine learning. Personal blog [www.77qingliu.com](http://www.77qingliu.com), Github [github.com/77QingLiu](https://github.com/77QingLiu).

## Skills

- Extensive knowledge of statistics(descriptive and inferential) and data mining algorithms
- Excellent knowledge of data management, data analysis and business intelligence
- In-depth knowledge of data analysis tools like Python, SAS and SQL
- Knowledge of AI/machine learning algorithms such as Decision Trees, SVM, Regression, AdaBoost, XGBoost, Random Forest, Clustering, and Neural Networks
- Knowledge of Big Data Tools: Hadoop, Spark, PySpark and Data Visualization Tools: Tableau, R Shiny

## Professional Experience

### Cowell Health - Hillhouse Capital Group

Shanghai, China

SENIOR BIG DATA ANALYST

Jun. 2018 - Present

- Mining, analyzing data from pharmacy goods selling databases to generate sales reports and find insight through data analysis.
- Applying 'market basket analysis/association rules' on large amounts of transactional data(10B+) in company's big data platform for cross selling pharmacy products.
- Scraping, cleaning, transforming drug, disease related data from various resources including CFDA, Encyclopedia and other websites.

### Eli Lilly & Company

Shanghai, China

STATISTICIAN - COMPUTATION

Nov. 2016 - May. 2018

- Acting as statistical analyst dedicated in oncology therapeutic area, responsible for creating robust programs to import, analyze, interpret and report data from Phase I and Phase III clinical trials(breast cancer). Working closely with clinical research physician, project statisticians to deliver patterns, trends and strategic insights in supporting drug development and medical research.
- Acted as leading statistical analyst, cooperated with the market department, analyzed drug marketing data with survival model, found trending and strategic insights through data analysis, received LCDDMAC Excellence Award.
- Acted as leading statistical analyst, cooperated with Health Outcome team, analyzed the reliability and validity of disease measurement scale among Chinese populations. and Logistic regression analysis was used to analyze factors that influencing the occurrence the disease, published three papers/manuscripts, received LCDDMAC Excellence Award.
- Implemented open source technology (eg. Python, R) to drive innovation, automated the process of data analysis and improved work efficiency, avoided tedious work and saved working time.
- Hosted biweekly team meeting, develop template to track project resource and workload, invite local/global expert to share knowledge in working process and regulatory policy update.

### PAREXEL International

Shanghai, China

STATISTICAL PROGRAMMER

Jun. 2015 - Nov. 2016

- Worked with outsourcing projects from J&J company as a Statistical Programmer, involved in many clinical trials projects ranged from oncology and autoimmune therapeutic area, specific work includes SDTM/ADaM creation and TFL, offline listing development.
- Acted as leading Statistical Programmer responsible for oncology SDTM project, participated in eCRF review, annotate aCRF, SDTM Spec Writing and directing the programming activities of other programming personnel and monitors progress on programming deliverables.
- Developed a SAS Macro(AutoGenaCRF) for automatically generating aCRF, time in generating aCRF reduced from 2 weeks to 3 days.

## Presentation & Publication

### PharmaSUG China 2017

Shanghai, China

PRESENTER

Jul. 2017

- [Streamline Table Lookup by Embedding HASH in FCMP](#)

### Neuropsychiatric Disease and Treatment

Worldwide

AUTHOR

Jan. 2018

- Reliability and validity of the Chinese version of questionnaire-Children with Difficulties for Chinese Children or Adolescents with Attention-Deficit/Hyperactivity Disorder: a cross-sectional survey

## Open Sourced Projects

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- SAS-Syntax-and-Theme** A SAS syntax highlighting package powered by regex in Sublime Text 3(download up to 5K)
- Algorithms** Data Structure/Algorithms implemented in Python
- job\_scraper** Python programs to scrape jobs from Linkedin and Indeed, powered by Selenium and BeautifulSoup.

## Honors & Awards

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|------|---|------------------------|
| 2018 | <b>LCDDMAC Excellence Award</b> , Eli Lilly & Company                       | <i>Shanghai, China</i> |
| 2017 | <b>LCDDMAC Excellence Award</b> , Eli Lilly & Company                       | <i>Shanghai, China</i> |
| 2015 | <b>Outstanding Graduate</b> , Huazhong University of Science and Technology | <i>Wuhan, China</i>    |

## Education

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### HUST(Huazhong University of Science and Technology)

B.S. IN MEDICAL STATISTICS

*Wuhan, China*

*Sep. 2010 - Jun. 2015*

- Core Curriculum: Health Statistics , Epidemiology, Multivariate Statistics

### East China Normal University

M.S. IN COMPUTER SCIENCE CANDIDATE

*Shanghai, China*

*expected graduation 2020*