

# Qianchao Liu

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📄 [qianchaoliu.github.io](https://qianchaoliu.github.io)

## Education

- Sep.2012- July2016 **Tianjin University**, *Information Management and Information System*, China,  
GPA - **3.89/4** Ranking: **1/71**.  
Main Course: Operations research, Object Oriented Programming(C++), Data Structures, Database principle and technology, Computer and Information Security, Computer Network, Probability, Applied Statistics, Data Warehouse and Data Mining
- Sep.2016- Mar.2019 **Shanghai Jiao Tong University**, *Management Science and Engineering*, China.  
Main Course: Business Analysis and Big Data(A), Service Operations System(A<sup>+</sup>), Operation Research(A<sup>-</sup>), Stochastic Process(A<sup>+</sup>), Econometrics(A), Text Mining(A)

## Projects

- 2016-2017 **Taobao Customer Behavior Analysis**, *Course Project*.  
◦ Feature Selection using Lasso Regression, Random Forest and PCA.
- 2016-2017 **Stack Overflow User Analysis based on Text Mining**, *Course Project*.  
◦ LDA, Multi-class Classification, Sentiment Analysis(Word2vec, LSTM). See [slides](#).
- 2017-2018 **Blockchain Analysis**, *Project of IT company*.  
◦ Blockchain parse and data warehouse construction(Hadoop, Hive and Hue), [news and market info aggregator](#), BTC price time series research(LSTM/GRU with Attention Mechanism), [Twitter sentiment on Bitcoin](#) and anonymous-removing research.
- 2017-2018 **Recommendation based on Choice Model and Neural Network**, *RA*.  
◦ Relative features construction. Building a deep neural network with convolution layer, highway layer and attention layer. See [slides](#).

## Jobs

- Dec.2015- Sep.2016 **Accenture**, *Intern Analyst*.  
◦ Project1: Precision marketing using cluster algorithm and collaborative filtering.  
◦ Project2: Location planning based on MILP model and massive data analysis.
- Jan.2017- June2017 **Yum china**, *Data and Business Analyst*.  
◦ Main Work: KFC customer behavior analysis and offering marketing strategies.  
◦ Skills: Hive, Python and Tableau.
- June2017- Oct.2017 **Ctrip**, *Operation and Algorithm Analyst*.  
◦ Main Work: Built recommendation system algorithms on hotels.  
◦ Models: Feature Engineering using Bayesian Method. Recommendation using FFM, Xgboost, LambdaMART, MNL, DeepChoiceModel.

## Honours and Awards

- Oct.2014 **National Scholarship**.  
Awarded to the top 0.2%.

Jan.2018 **Mckinsey Analytics Hackathon Sales Excellence.**

Built a machine learning model to prediction the segment of customers with a high probability of conversion.

Ranking: 21/2821. See [hackathon description and leaderboard](#).

## Technical Skills

Programming Languages Python, C++, R

Statistics Bayesian Analysis, Data Dimension Reduction, Time Series, Clustering, Ensemble Learning and Stacking, Deep Learning

Web HTML, CSS, JavaScript(vue.js)

Database Hive, Mysql, MongoDB etc.

ML-Library Scikit-Learn, Xgboost, Tensorflow

Miscellaneous  $\LaTeX$ , Tableau, Stata, SPSS, Pandas

## Interests

Statistics, Data Science, Machine Learning

# 刘乾超

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## 教育

- 9.2012- 天津大学, 信息管理与信息系统, 中国, GPA - 3.89/4 排名: 1/71.
- 7.2016 主要课程: 运筹学, 面向对象编程 (C++), 数据结构, 数据库原理, 计算机信息安全, 计算机网络, 概率与应用统计, 数据仓库与数据挖掘
- 9.2016- 上海交通大学, 管理科学与工程, 中国.
- 3.2019 主要课程: 商务分析与大数据 (A), 服务运营系统 (A<sup>+</sup>), 运筹学确定模型 (A<sup>-</sup>), 随机模型 (A<sup>+</sup>), 计量经济学 (A), 文本挖掘 (A)

## 项目

- 2016-2017 淘宝消费者数据分析, 课程项目.
  - 基于 Lasso 回归, 随机森林以及主成分分析 (PCA) 的特征选择.
- 2016-2017 基于文本挖掘的 **Stack Overflow** 用户分析, 课程项目.
  - 使用 LDA 进行话题分析, 基于多分类的问题标签补全, 文本情感分析 (Word2vec, LSTM). 见[slides](#).
- 2017-2018 区块链研究, 区块链公司项目.
  - 区块链数据解析以及数据仓库搭建 (Hadoop, Hive 以及 Hue), [新闻聚合器及市场信息](#), 比特币价格时间序列分析 (LSTM/GRU with Attention Mechanism), [推特比特币话题情感分析](#)以及数字货币的去匿名化研究.
- 2017-2018 基于选择模型以及神经网络的推荐系统, 助研.
  - 相对特征构建. 搭建具有卷积层、Highway 层以及 attention 层的多层神经网络. 见[slides](#).

## 工作

- Dec.2015- 埃森哲, 分析师.
- Sep.2016
  - 项目 1: 基于聚类算法以及协同过滤的精准营销.
  - 项目 2: 基于 MILP 模型的选址规划模型以及海量数据分析.
- Jan.2017- 百胜中国, 数据以及商业分析师.
- June 2017
  - 主要工作: KFC 用户行为分析以及营销方案设计.
  - 主要工具: Hive, Python 以及 Tableau.
- June 2017- 携程, 运营及算法工程师.
- Oct. 2017
  - 主要工作: 酒店板块的推荐排序.
  - 模型: 基于贝叶斯方法的特征构造. 基于 FFM, Xgboost, LambdaMART, MNL, Deep-ChoiceModel 的推荐系统搭建.

## 获奖情况

- Oct. 2014 国家奖学金.  
授予比例 0.2%.
- Jan. 2018 **Mckinsey Analytics Hackathon Sales Excellence**.  
使用机器学习方法预测用户转化概率.  
排名: 21/2821. 见[hackathon 描述以及排名](#).

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## 专业技能

编程语言 Python, C++, R  
统计模型 贝叶斯模型, 数据降维, 时间序列, 聚类, 集成学习以及 Stacking, 深度学习  
Web HTML, CSS, JavaScript(vue.js)  
数据库 Hive, Mysql, MongoDB 等  
机器学习工具 Scikit-Learn, Xgboost, Tensorflow  
其他  $\LaTeX$ , Tableau, Stata, SPSS, Pandas

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## 兴趣

统计, 数据科学, 机器学习