

LILIAN (JIACHEN) GONG

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Master student at CMU, School of Computer Science.
I'm dedicated to combining user experience research pedagogy with data science, applying data analysis/machine learning to fulfill user needs.

EDUCATION

Carnegie Mellon University

School of Computer Science
M.S.—Educational Technology and
Applied Learning Science
GPA: 3.92
August 2020

Peking University

School of Social Science
B.A. —Sociology
GPA: 3.72
July 2018

RELEVANT COURSES

Machine Learning
Data Mining
Applied Data Science
Data Structure and Algorithm
Linear Algebra
Probability & Statistics
Personalized Online Learning

SKILLS

Data Analysis

Statistics/Regression Modeling
Machine Learning
Python, R, SQL
Firebase, AWS
Pandas
Gephi

UX/LX Research

Cognitive Task Analysis
Rapid Prototyping
Curriculum Evaluation

HONORS

Merit Scholarship | CMU
GSA Representative | CMU
Wu-Si Scholarship | PKU
Academic Excellence Award | PKU

EXPERIENCE

Amazon Alexa Prize Challenge

Data Scientist

Pittsburgh, U.S.

01/2020-present

- Provide daily data analysis report on voice-bot user interaction data via AWS S3, DynamoDB and Athena
- Identify user interaction patterns and potential bugs in voice-bot NLP system

China Institute for Education Finance Research

Data Analyst

Beijing, China

09/2018-07/2019

- Predicted friendships among 12,948 undergraduates from 27 departments exploring 2,800,000 student records using Python Pandas
- Identified 29,627 pairs of possible friendships with the raw accuracy of 84.79% and created the first PKU Student Social Network Model

Particle Media Inc.

Big Data Intern

Beijing, China

07/2017-10/2017

- Produced 6 data analysis projects exploring user interactions to better understand user interests
- Proposed changes to the app based on competitive product research, customer interviews and quantitative research

RESEARCH

NLP Emotion Detection Project

Machine Learning Course Work

CMU, Pittsburgh

10/2019-11/2019

- Extracted features from raw data of movie review text into feature vector using bag-of-words
- Build up logistic regression model from scratch to detect emotions with the accuracy of 98.99% / 80.25% in train / test set

Body Dimension Data Analysis Project

Summer School Course work

UCL, London

07/2018-08/2018

- Developed and compared machine learning models using linear regression and random forest models using R
- Optimized model performance based on MSE using bootstrapping technique

Institute of Social Science Survey

CHARLS Research Intern

PKU, Beijing

05/2016-08/2016

- Led a team of 3 in China Health and Retirement Longitudinal Study (CHARLS)
- Completed 100 qualitative interviews gathering historical data from 12 villages in a rural area of Hunan province
- Published CHARLS dataset for secondary research