

Education

Duke University

M.S. Interdisciplinary Data Science, GPA 3.66/4.0

May 2020
Durham, NC**Huazhong University of Science & Technology**

B.E. Electronic Science and Technology

Jun 2013
Wuhan, China

Work Experience

Data Science Intern - Duke Health

Collaborate with Duke University Hospital to conduct mortality risk evaluation of cardiac decompensation patients.

06/2019 - 05/2020
Durham, NCConvert the rules in "*Hospital Toolkit for Adult Sepsis Surveillance*" by CDC into Python algorithms.**Product Manager - Aibee Inc.**

Designed and launched AI-driven customer insight products as the only PM in the company. Cooperated with 3 \$2.7-\$35B clients and integrated our product into their BI system.

12/2017 - 08/2018
Beijing, China

- **Best Employee Award in 2018 (1/31)**

Product Cofounder - Zhonggua Technology Co., Ltd.

Established a freelancer platform that connected top companies' employees and startups. Acquired by my next company (Aibee) on 1st Dec 2017.

03/2017 - 12/2017
Beijing, China**Director of Mobile Platforms - Genetalks Biotechnology Co., Ltd.**

Digitalized Genetalks' sales channel, established an app that provided post-sales service.

02/2016 - 02/2017
Beijing, China**Senior Product Manager / Product Manager - Baidu Inc.**

Led product design for FaceYou App. In Dec. 2015, 5 million users, ranked 3rd place in App Store. Initiated personal AI assistant project BaiduEye, as PM led in design & development.

07/2013 - 2012/15
Beijing, China

- **Outstanding Employee Award in 2015 (1/~150)**

Data Science Projects

Face Generation and Interpolation: In this project, a Generative Adversarial Network (BEGAN) was trained using celebrity face dataset. The result is a face generator, followed by an interpolation analysis (gradual change between 2 faces) proving the model understand the face structure.. [GitHub](#)

Emotional States: A research project about if emotional states can be inferred from wearable activity sensor data. CatBoost models were trained on Fitbit data along with personality, physical health and demographic data collected from 153 participants. The best inference performance is precision 0.595, recall: 0.877, F1: 0.75. [GitHub](#).

Friendship Inference based on Network Analysis: This project studies how do the Big Five personality traits relate to our friendship. Through the analysis of AME model and linear regression, we have found significant negative correlation between the personality trait agreeableness and friendship rating (weight). [GitHub](#)

Seinfeld TV Script Generation: A text generation model using LSTM and Word2Vec, trained on Seinfeld TV script, then generate new script based on the a given starting text sequence. [GitHub](#)

More data science projects can be found in my GitHub, other projects in my Portfolio: www.SicongZhao.com

Data Science Articles

Demystify Transposed Convolutional Layers by Visualization and PyTorch

[Link](#)

Value Investing in Python

[Link](#)

Insights of Google Employees from Glassdoor Data

[Link](#)

Award & Patent

Best Use of Outside Data @DataFest Duke

04/19

Led visual feedback help users locate the direction of head-mount devices' camera

[WO2016176950A1](#)

Skills

Tech: Deep Learning (CNN, RNN, GAN, Auto-encoder), Reinforcement Learning, Machine Learning, Stochastic Processes, Bayesian Analysis, Statistical Modeling, Text Analysis, Python, R, Tableau, SQL

Design - Data Visualization (Tableau, Keynote), Interface Design (Photoshop, Sketch, AI), 3D Design (Cinema 4D)