Bohao Zou

First Year Master of
Biostatistic & Minor Computer Science
at University of California, Davis

Links

Mob : +1-5302207495
Email : bhzou@ucdavis.edu
Github :// **Bohao Zou**

Skills

COMPUTER LANGUAGES
Java (Proficient),
Python (Proficient),
R (Proficient)

OTHERS
Machine Learning
Computer Vision
Natural Language Processing
Statistical Method (Regression Models)
Web Crawler (By Using Java Language)

Coursework

Probability Theory
Introduction to Mathematical Statistic
Computational Statistic
Statistical Methods for Research
Bioinformatics
Big Data & Statistical Computing
Data Structure

Education

2019-2021
MASTER DEGREE
Master of Science
Major : Biostatistic, Minor Computer
Science
School : University of California, Davis
GPA : 3.75 / 4.0 (Expected)
GPA : 3.62 / 4.0 (Current)

2014-2019
BACHELOR DEGREE
Bachelor of Science
Major : Biotechnology
School : Harbin Medical University
GPA : 3.23/4.0

Experience (Can be linked to GitHub)

2018.06-2018.08 **Researcher (intern)**

Shenzhen Qianhai Yichain Network Technology Co., Ltd.
Analyzed the algorithm of Alpha Go Zero and achieved a Alpha Go Zero simulation program by using python and tensorflow. **Github: Alpha Go Zero Simulation Program.**

2018.08-2019.01 **Researcher (intern)**

Ping An Technology (Shenzhen) Co., Ltd.
Explore new architecture of CNN. Participated Kaggle pneumonia objection detection competition. Result: Top 11% of 1445 global teams. **Github: New architecture: ResNeXt-FPN** ; **Competition Model: Mask-RCNN and Faster-RCNN**

2019.01-2019.03 **Researcher (intern)**

3D Medicines Co., Ltd.
Use CNN to detect the SNP or SNV position in the genome. Based on two theses: **DeepVariant** of Google Brain and **NeuSomatic** of Roche. Use CNN to extract feature of some special biology data. **Github: DeepVariant Workflow With Java** ; **SNP or SNV Detect Workflow** ;

Achievements/Awards

2016 National College Students Mathematical Modeling Competition
Provincial Third Prize
2017 Eighth National College Students Mathematics Competition
Provincial Second Prize
2017 American College Students Mathematical Modeling Competition
SP Award
2017 Northeast Three Provinces Mathematical Modeling Competition
First Prize
2017 National College Students Mathematical Modeling Competition
Provincial First Prize

Projects (Can be linked to GitHub)

- **Bachelor Graduation Paper: 1) English Complete Version;   2) Chinese Original Version; Codes Click Here (Statistic & Machine Learning)**

- **Use ALBERT Model to Judge If One Sentence Depicts RNA and RNA Interaction. AUC: 0.975. Will be Published. (NLP. A Part work of a Paper)**

- **Use Bayes Optimization to Find Hyper-parameters for Bias SVD Matrix Factorization. Will be Published. (Opt-Algorithm. A Part work of a Paper)**

- **Kaggle SIIM-ISIC Melanoma Classification Competition. LB: Our AUC: 93.1%; Other Team Top AUC: 96.3% .(Computer Vision)**

- **STA 243, Thesis Summary & Experiment for Newton Sketch Optimization Algorithm (BasedR), [Code]; EM For Gaussian Mixture Model (Based R), [Code] (Convex or Non-Convex Optimization)**

- **STA 221, Improve CNN image Classification By Ensemble Learning, [Code] (Computer Vision)**