CAIHAN WANG
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PROFILE

An energetic and creative bioengineering graduate and Master of Biostatistics candidate at Duke University with experience in genetics research and passion for new and challenging opportunities and fields. Currently seeking an internship in *Biostatistics* and/ or *Consulting.*

EDUCATION

DUKE UNIVERSITY, School of Medicine, Durham, NC
Master of Biostatistics, May 2022
Relevant coursework includes: Introduction to Statistical Theory and Methods I&II, Applied Biostatistics Methods I & II, Introduction to the Practice of Biostatistics I & II, Software Tools for Data Science (Python), Introduction to Statistical Programming I&II (R, SAS)

BEIJING TECHNOLOGY AND BUSINESS UNIVERSITY, School of Light Industry, Beijing, China
Bachelor of Engineering, **Bioengineering,** June 2020. GPA: 3.6/4.0(Top 10%). Outstanding Graduates of Beijing. First-class Scholarship for Outstanding Graduates. Scholarship for Outstanding Students (Three times). The First Prize in the 6th Innovation and Entrepreneurship Competition in BTBU.
Relevant coursework included: Advanced Mathematics, Linear Algebra, Probability and Mathematical Statistics, Computer Technology (C++), Gene Engineering, Cell Engineering, Enzyme Engineering, Biochemistry.

PROFESSIONAL EXPERIENCE

IQVIA, Shanghai, China   Spring 2021
Intern in Consulting
- Researched on the major players in the Chinese catheterization kit market, the main product types, market size, and the future growth rate of each segment, and organized the desk research analysis report to submit it to the superior analyst
- Conducted background research on a number of companies in the Chinese medical device market, including the catheterization kit market and the intraoperative navigation system market, etc., and completed the industry research report
- Investigated the charging and control of catheterization kit products in various provinces in China through cold call and completed the investigation report
- Investigated Chinese manufacturers in the field of intraoperative navigation through cold call, obtained the product parameters, product characteristics of different manufacturers, and the distribution of products in various provinces and cities, and completed the research report

HUADONG MEDICINE CO., LTD, Hangzhou, China   Summer 2020
Operational Management Department
Intern in Data Analysis
- Analyzed logistics data in 2019 and 2020 with R language and discovered the reason for the changes and differences between 2 years
- Investigated medicine market in China, compiled and collected the list medicines of national medical insurance negotiations and related data, and gave suggestion for future plans for medical purchases and sales
- Organized and summarized inventory data and processed inventory forecasting

GUANGZHOU TOP GENE MEDICAL TECH CO., LTD, Guangzhou, China   Spring 2019
Research and Development Department
Intern in Research Service Group
- Extracted and analyzed ovarian and breast cancer genetic mutation data
- Applied Meta-analysis with RevMan to explore correlation of ovarian and breast cancer with specific genes and geographical locations
- Conducted stratified data analysis by R over patients of ovarian and breast cancer in database
- Performed genetic analysis by R on the gene sequencing results of ovarian and breast cancer patients in the database

ACADEMIC EXPERIENCE

WESTLAKE UNIVERSITY, Hangzhou, China   Winter 2020
Professor Zheng Houfeng's Laboratory
Visiting Researcher
- Conducted background investigations on existing research on bone density and depression and other psychological diseases, understood the mechanism of action, and wrote research reports
- Cleaned and filtered the data in the UK Biobank database by R, and utilized the data to explore the potential correlation between bone density and mental illness such as depression
- Utilized logistic regression model, multiple linear regression model, and Mendelian randomization to explore the correlation between bone mineral density and mental illness such as depression and wrote paper

BEIJING TECHNOLOGY AND BUSINESS UNIVERSITY, Beijing, China   Spring 2019
Mathematical Contest in Modeling
Research Assistant
- Conducted background investigations and collected relevant data on the living habits, growth, reproduction and migration habits of large animals
- Used "gray model" mathematical modeling to establish a dragon's growth model and migration model and wrote paper

BEIJING TECHNOLOGY AND BUSINESS UNIVERSITY, Beijing, China   2017-2018
School of Light Industry
Research Assistant
- Established big data-based genetic analysis model
- Performed 16SrDNA gene sequencing on enteric microorganism, conducted in-depth machine learning and analysis of the big data in gene sequence database with artificial neural network technology, established discrimination model for different groups of people and provided customized health reports
- Conducted product market investigation and technology feasibility analysis
- Won the First Prize in the 6th Innovation and Entrepreneurship Competition in BTBU and the third prize in China Software Cup Innovation and Entrepreneurship Competition

LEADERSHIP
BEIJING TECHNOLOGY AND BUSINESS UNIVERSITY, Beijing, China   2016-2020
School of Light Industry
Monitor
- Leaded the class and won the Excellent Class Award twice (2018&2019)
- Leaded the class and won the third prize of the school chorus competition (2016/12)

BEIJING TECHNOLOGY AND BUSINESS UNIVERSITY, Beijing, China   2017-2019
School of Light Industry
Captain of the basketball team
- Leaded the team and won the championship of BTBU basketball competition (2018)

OTHER INFORMATION
Professional Associations: American Statistical Association
Technical Skills: R, Python, C++, Microsoft Office (Excel, Word, PowerPoint)