YIJIE HE

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PROFILE

A self-motivated and adaptable Master of Biostatistics candidate and bioengineering graduate with intercultural background and interdisciplinary research experience. Enthusiastic for new and challenging opportunities and fields. Currently seeking an internship in ***Biostatistics*.**

Technical Skills: PYTHON, JAVA, Bash, MATLAB, SQL, LABVIEW, Microsoft Office,

EDUCATION

DUKE UNIVERSITY, School of Medicine, Durham, NC
***Master of Biostatistics*,** May 2021
Relevant coursework includes: Introduction to Statistical Theory and Method I & II, Applied Biostatistics Methods I & II, Introduction to Practice Biostatistics I & II, Introduction to Statistics Programming I & II

UNIVERSITY OF CALIFORNIA SAN DIEGO, Revelle College, La Jolla, CA
Bachelor of Science, Bioengineering-Biosystems, June 2019. GPA: 3.63/4.00, Major GPA: 3.87/4.00, Provost's Honor.
Relevant coursework included: Statistical Reasoning for Bioengineering applications, Measurements, Statistics, and Probability, Biomedical Optics and Imaging, Numerical Analysis and Computational Engineering, Modeling and Computation in Bioengineering

EXPERIENCE

UNIVERSITY OF CALIFORNIA SAN DIEGO, La Jolla, CA 2017-2019
School of Medicine, Orthopedic Surgery
Student Researcher *(2018-19)*

- Mastered use of ultrasound machine, fluorescent microscopy, protein assay, microsphere fabrication, electrospinning
- Built implantable nerve conduits that improve the speed of axonal regeneration for damaged peripheral nerve
- Enhanced teamwork and communication skills with group members and other researchers
- Resulted in a poster that was presented in the campus-wide Bioengineering Day

Nano-bio Imaging and Devices Laboratory
Volunteer and Research Assistant *(2017-18)*

- Participated in the AFM imaging of neural structure imaging and electrical recording project
- Wrote a Matlab program that transfers raw AFM data into images in real time
- Became familiar with the design of AFM cantilever and AFM data acquisition

Jacobs School of Engineering
Student Researcher *(Spring 2018)*

- Implemented multiple statistical methods to a motor neuron dataset in Python, including: PCA, logistic regression and point process
- Analyzed the determining factors for motor neuron spiking
- Identified the association between subject movement and spiking

HANGZHOU NOWATECH BIOTECHNOLOGY LTD., Hangzhou, China Summer 2017
Internship in R&D

- Became acquainted with the Immune colloidal gold technique (GICT) used in the rapid disease test stripes for pets
- Designed an experiment that helped determine the best choice from 25 pairs of antibodies and stabilizers used in the test stripes using orthogonal test method
- Attended Pet Fair Asia 2017 as representative of the company

POSTER PRESENTATION

Kirsten Wong, **Yijie He**, Samika Shenoy, Neha Chhugani. "Nerve Regeneration Conduit for Peripheral Nerve Injury." *UC SAN DIEGO Bioengineering Day* (04/2019).

ADDITIONAL INFORMATION

Scientific Skills: Microcontrollers (Arduino, Raspberry Pi), Breadboard circuits building and design, Atomic force microscopy, Matlab Simulink