

# SHENGNAN SUN

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## EDUCATION

### COLUMBIA UNIVERSITY MAILMAN SCHOOL OF PUBLIC HEALTH, New York, NY

May. 2019

*Master of Science, Biostatistics*

- Relative coursework: Probability, Biostatistics Method, Data Science, Principles of Epidemiology
- CUMC-Chinese Students and Scholars Association Head of Activities and Planning Assistant

### UNIVERSITY OF CALIFORNIA, SAN DIEGO, San Diego, CA

Mar. 2017

*Bachelor of Science, Physiology and Neuroscience, Minor in Psychology*

- Cum Laude; Provost Honors; Phi Beta Kappa Honor Society Membership

## EXPERIENCE

### QIBEBT, Chinese Academy of Sciences, Qingdao, China

June-Aug. 2017

*Biostatistics/Data Analysis Intern*

- Collaborated with a CS intern on developing a comprehensive taxonomical and functional analysis platform for efficient comparison of microbial communities using Python
- Designed and coded the analytical and statistical modules of the platform independently.
- Created accurate and compelling data visualization of skin microbiota and atopic dermatitis project for publication using R.
- Prepared 200+ publications review for skin microbiota and atopic dermatitis project.
- Presented the outcome of the platform to the research center members and wrote a report for review by project supervisor.

### Department of Cellular and Molecular Medicine, UCSD, San Diego, CA

June 2016-Mar. 2017

*Bioinformatics Research Assistant*

- Prepared and cleaned up to 50,000 pieces of data from 196 transcription factor (TF) motifs for further analysis.
- Analyzed and visualized the statistical relationships between pairs of TF motifs regarding their co-occurrence, orientation and consensus match using Python.
- Presented the project to the laboratory members and the principal investigator, which contributed to the study design of further analysis.

### Scripps Institution of Oceanography, UCSD, San Diego, CA

Jan-June. 2016

*Undergraduate Researcher*

- Developed a research thesis, which involved the relationship between bird blood parasites intensity and host immune response.
- Collaborated with a team member to prepare and photograph bird blood smears using compound microscope cameras.
- Accurately verified cell counts using ImageJ, and manually counted the number of immune cells.
- Generated the statistical analysis of the data using Excel, and wrote a report for review by project supervisor.

### Department of Pharmacology, UCSD, San Diego, CA

Oct. 2015-June. 2016

*Immunology Research Assistant*

- Performed research task independently and coordinated with postdoc in regarding to visualize and photograph samples using microscope camera.
- Independently scheduled tasks and precisely prepared samples for further testing in a timely manner.

## SKILLS

- **Language skills:** Bilingual English and Chinese.
- **Computer skills:** Strong knowledge of MS Office (Word, PowerPoint, Excel), Python, MATLAB, R. Knowledge of MiniTab, ImageJ, and SAS.

## EXTRACURRICULAR ACTIVITIES

### San Diego Humane Society Project Wildlife, San Diego, CA

Mar. 2016-Mar. 2017

*Volunteer*

### CF Cycle for Life, San Diego, CA

Oct. 2015

*Volunteer*