

Zhaohua Chunyu

Address: 555 W 53rd St, New York City, NY, 10019 |
No. 39, Lane 538, Zhenghe Rd, Yangpu District, Shanghai
Tel: 2135264593 | Email: zchunyu1224@gmail.com

EDUCATION

Columbia Mailman School of Public Health

New York City, NY

Biostatistics | Master of Science

University of Southern California

Los Angeles, CA

Bachelor of Biological Sciences

Expected May 2022

- Cumulative GPA: 3.85
- Dean's List

WORK EXPERIENCE

Shanghai Biochip Corporation (SBC)

Shanghai, China

Intern

June 2021-December 2021

- Analyzed single-cell RNA-seq data and Visium Spatial Gene Expression via Python, R and Perl, and built a database
- Processed raw data by de-connecting head and tail sequences and filtering low-quality reads and assessed the sequencing quality, repeated, and tested high-quality (clean) data
- Compared clean data with reference gene groups to perform quantitative analysis of known mRNAs
- Carried out GO/KEGG enrichment analysis on the functions and pathways of differential genomes
- Performed variable shear analysis, cell compositional analysis, and GESA enrichment analysis
- Interpreted the results and diagrams, and wrote a report to explain the whole process
- Summarized and translated papers on single-cell RNA sequencing and spatial transcriptomics from international science magazines, and published them on the WeChat Official Account

Merck Pharmaceutical Manufacturing (Jiangsu) Co., Ltd., Quality Control

Nantong, China

Intern

June 2020 – August 2020

- Tested Glucophage's and Thyrozol's assay, related substances, content uniformity, dissolution, and blend uniformity
- Conducted microbial limit tests on Glucophage, Thyrozol, Euthyrox, and Concor tablets and formulated culture media
- Conducted environmental monitoring of workshop surfaces, air suspending particles and floating matter
- Conducted microbial stains identification via Gram Stain and VITEK
- Tested production water's conductivity, microbial limit, and substances' content: HNO₃, HNO₂, ammonia, TOA, etc

PricewaterhouseCoopers

Shanghai, China

Intern

July 2019-August 2019

- Analyzed and processed invoices weekly from China COCSC Shipping Co. to detect irregularities including open invoices, overdue invoices, delayed payments
- Updated COCSC's weekly financial data for cash flow analysis and monthly expense forecasting

RESEARCH EXPERIENCE

Course Project: Study of purification and Enzymic Kinetics of β -Galactosidase | Advisor: Eric Noakes

Fall 2021

- Extracted proteins using salting-out method and created calibration curves for o-Nitrophenol and Bradford assay
- Measured protein and enzyme concentrations on the Spectrophotometer using the *Bradford* and *β -galactosidase assays*
- Purified β -galactosidase using ion exchange chromatography and ultrafiltration
- Interpreted enzymatic reaction, and measured enzyme kinetics of β -galactosidase
- Separated protein in original sample and purified sample to determine the size of target protein using SDS-PAGE Electrophoresis

LEADERSHIP EXPERIENCE

Healthcare Camps

Shanghai, China

Leader

October 2018 – Present

- Organized summer camps at Changhai Hospital to provide healthcare lab experiences for high school students
- Led volunteer teams at Changhai Hospital Rehab Center to assist patients undergoing therapies, answering questions on procedures and observing varieties of treatments

SKILLS, ACTIVITIES & INTERESTS

Languages: English (native), Mandarin (native)

Technical Skills: Canva, Google AdWords, Microsoft Office Suite, Python, R, Stata, Bloomberg, Equities Lab, Wind

Interests: Poker, Chinese Calligraphy, Anime