Yiyang LIU

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EDUCATION

Mailman School of Public Health, Columbia University, New York

Sep 2019 – Present

Degree: Master of science – *Major*: Biostatistics

School of Pharmacy, Fudan University (FDU), Shanghai

Jul 2015 - Sep 2019

- ➤ **Degree**: Bachelor of science **Major**: Pharmaceutical Science.
- Awards: Outstanding Student of School of Pharmacy (top 5%)

Roche Pharmaceutical Ltd., Shanghai

Sep 2017 - Nov 2017

Participated in the R U Next Project, led a team to design a medical insurance negotiation scheme for a certain drug by mining and analyzing historical data and won *the Best Scheme Reward* in the final case competition.

RESEARCH EXPERIENCE

RNA-seq data analysis in Quartet program | RA

May 2018 - March 2019

Advisor: Leming Shi, Professor, School of Life Sciences, FDU

- ➤ Utilized R to analyze RNA-seq data, including studying the consistency of two technical replicates, PCA, HCA, DEG analysis, etc. Employed ggplot2, Heatmap2 and other packages to visualize the results.
- ➤ Wrote the PCA and HCA part of the RNA-seq Standard Operating Procedure for the group.
- > Studied the effects of different aligners (including TopHat and HISAT2) on the quality of RNA-seq data.
- Identified the pipeline with high accuracy for RNA benchmarking by consulting papers, including short-read and long-read isoform detection.

Biomimetic nanorods targeting tumors | RA

Jun 2017 – May 2018

Advisor: Zhiqing Pang, Associate Professor, Department of Pharmaceutics, FDU

- Wrote a research proposal and obtained funding from the Wang Dao Program of Fudan's Undergraduate Research Opportunities Program which is customarily given to less than 5 percent of all undergraduate students as the highest honor during undergraduate research.
- ➤ Wrote Chapter 13 of *Polysaccharide Carriers for Drug Delivery* (in press at Elsevier), focusing on starch-based and dextran-based nanoparticle delivery systems for cancer therapy.
- > Synthesized platelets-membrane-coated gold nanorods for targeting orthotopic breast tumor.
- > Organized experimental data and performed data analysis.

PROFESSIONAL EXPERIENCE

Abbott Laboratories

PV/MI Intern

Shanghai, China

May 2019 – Jul 2019

Coordinate collection and edition of the articles for the digital platform of Medical department.

Xinhua Hospital Affiliated to Shanghai JiaoTong University

Shanghai, China

Summer Intern, Department of Pharmacy

Jul 2018 – Aug 2018

Assisted in gene tests, combined daily experimental data and categorized massive collected data.

Shanghai Biopharmaceutics Industry Association

Shanghai, China

Winter Intern

Dec 2016 – Feb 2017

Assisted in organizing the Annual Council of Zhangjiang Pharmaceutical Enterprises at Novartis. 50 managers of pharmaceutical enterprises attended the meeting.

LEADERSHIP

Student Union, School of Pharmacy | Minister of Information Department

Nov 2016 – Nov 2017

- Managed the Wechat platform of FDUpharmacy and attracted over 9500 subscribers.
- Directed the News Broadcast of School of Pharmacy, with more than 1000 viewers.
- Collected daily data of the platform and analyzed the correlation curves between the content of the articles and the hit number.

SKILLS AND OTHERS

- Computer skills: Advanced in R, Origin, Python, Linux, VB, PS, Access, Excel, etc.
- Language: Chinese (native), English (fluent)