

# Yiyang LIU

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## EDUCATION

**Columbia University, Mailman School of Public Health, New York** **May 2021**

- Master of science in Biostatistics, GPA: 3.83
- Main courses and grades: Data Science (A), Biostatistics Method I (A)

**Fudan University (FDU), School of Pharmacy, Shanghai** **July 2019**

- Bachelor of science in Pharmaceutical Science
- Awards: Outstanding Student of School of Pharmacy (top 5%)
- Involvement: Winner of Roche Pharmaceutical Ltd. R U Next *Best Scheme Reward*

## PROFESSIONAL EXPERIENCE

**Abbott Laboratories, Shanghai, China** **May – Jul 2019**

Pharmacovigilance / Medical Information Intern

- Coordinate collection and edition for the articles for the digital platform of Medical department
- Medical information related support, include medical literature retrieval, literature translation, etc.
- Pharmacovigilance related support, include data entry and processing of adverse event in data base

**Xinhua Hospital Affiliated to Shanghai JiaoTong University, Shanghai, China** **Jul – Aug 2018**

Summer Intern, Department of Pharmacy

- Assisted in gene tests, combined daily experimental data and categorized massive collected data
- Assisted in improving clinical medication supervision system

**Shanghai Biopharmaceutics Industry Association, Shanghai, China** **Dec 2016 – Feb 2017**

Winter Intern

- Assisted in organizing the Annual Council of Zhangjiang Pharmaceutical Enterprises at Novartis. 50 managers of pharmaceutical enterprises attended the meeting
- Organized event records of the year

## RESEARCH EXPERIENCE

**School of Life Sciences, FDU, Shanghai** **May 2018 – March 2019**

Research Assistant of RNA-seq data analysis in Quartet program, Advisor: Leming Shi, Professor

- 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

**School of Pharmaceutics, FDU, Shanghai** **Jun 2017 – May 2018**

Research Assistant of Biomimetic nanorods program, Advisor: Zhiqing Pang, Associate Professor,

- Wrote a research proposal and obtained 600\$ 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
- Synthesized platelets-membrane-coated gold nanorods for targeting orthotopic breast tumor. Organized experimental data and performed data analysis

## PUBLICATIONS

- Yuefei Zhu, **Yiyang Liu**, Kai Jin, Zhiqing Pang. Chapter 13. Polysaccharide nanoparticles for cancer drug targeting, Book *Polysaccharide Carriers for Drug Delivery*, Editor Sabyasachi Maiti and Sougata Jana
- Yuefei Zhu, **Yiyang Liu**, Zhiqing Pang. Chapter 4. Chitosan in drug delivery applications, Book *Natural Polysaccharides in Drug Delivery and Biomedical Applications*, Editor Md Saquib Hasnain and Amit Kumar Nayak

## SKILLS AND OTHERS

**Computer skills:** Advanced in R, SQL, Origin, Python, Linux, VB, PS, Microsoft Office, etc.

**Language:** Chinese (native), English (fluent)