

# Jack (Xinyu) Yan

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## EDUCATION

### COLUMBIA UNIVERSITY

#### MS IN BIOSTATISTICS

Mailman School of Public Health  
Expected May 2020 | New York, NY  
Cum. GPA: N/A

### NANJING AGRICULTURAL UNIVERSITY

#### BS IN BIOLOGY

College of Life Sciences  
Grad. Jun 2018 | Nanjing, China  
Cum. GPA: 3.83 / 4.0

### UNIVERSITY OF CALIFORNIA

#### EXCHANGE STUDENT

2016 | Davis, CA  
Cum. GPA: 3.75 / 4.0

## LINKS

Github:// [jackyan0320](#)

LinkedIn:// [xinyu-jack-yan-330052126](#)

## COURSEWORK

#### CURRENTLY LEARNING:

Data Science and R Programming  
Biostatistical Methods  
Epidemiology

#### WILL LEARN:

Machine Learning  
Data Mining  
Relational Databases and SQL  
Programming

## SKILLS

### SOFTWARE

R • Python •  $\text{\LaTeX}$  • C • VB •  
Adobe Premier • Microsoft Office

### EXPERIMENTAL

DNA Extraction • PCR • DNA Gel  
Electrophoresis • Western Blot •  
LSCM • HPLC • Animal Cell Culture

## EXPERIENCE

### NANJING AGRICULTURAL UNIVERSITY | STATISTICIAN INTERN

Nov 2017 – Jun 2018 | Nanjing, China

- Conducted data cleaning, visualization and statistical inference on microRNA gene expression data.
- Used Python and JavaScript to scrape over 1000 observations of microRNA parametric data.

### NATIONAL DRUG CLINICAL TRIAL CENTER | STATISTICIAN INTERN

May 2017 – Aug 2017 | Nanjing, China

- Worked on clinical trial design and statistical analysis with several clinical trial and experiment reports.
- Attended routine trainings and 5 consulting events on clinical research statistical analysis.
- Assisted in preliminary stage of a trial about adult mesenchymal stem cell therapy for diminished ovarian reserve patients; got familiarized with Electric Data Capture System.

### UNIVERSITY OF CALIFORNIA, DAVIS | RESEARCH ASSISTANT

Sep 2016 – Dec 2016 | Davis, CA

- Practiced molecular biology techniques including plasmid extraction, transformation, enzyme digestion, DNA gel electrophoresis, and primer design.
- Learnt to do BLAST and plasmid sequence annotation.
- Assisted to work on a project of sunflower circadian regulation and heliotropism.

## RESEARCH

### NAU SOIL MICROBIOLOGY LAB | HEAD UNDERGRAD RESEACHER

Apr 2016 – Jun 2017 | Nanjing, China

- Designed and conducted experiments to analyze impacts of soil factors and three soil types on the structure of soil bacterial communities.
- Analyzed bacterial diversity by calculating Shannon Index, Simpson Index, and Dominance Index and clustering analysis; discussed the impacts of all factors and compared with publications.

### NAU PLANT PHYSIOLOGY LAB | HEAD UNDERGRAD RESEARCH

Dec 2016 – Jun 2017 | Nanjing, China

- Studied hydrogen-rich water's effect on nitrate reductase activity, vitamin C content and degradation of pesticides of types of fruit and vegetable.
- Designed and prepared a vegetable preservation box that controllably produce and spray hydrogen-rich water; tested its applicability and safety.
- Prepared documents for patent application (authorized) and PPT/reports for contest.

## AWARDS

2015-2017	top 52/2500	1st Prize, Nanjing Agricultural University Scholarship
2016	2 <sup>nd</sup>	Chinese Government Scholarship for Overseas Study
2015	1 <sup>st</sup> /50	NAU Outstanding Student Scholarship
2015	University	Excellent Student Leader Award