

# Zhiqian (Catherine) Fang

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## EDUCATION

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**Columbia University Mailman School of Public Health, New York, United States** May 2020

Master of Science in Biostatistics GPA: 3.5/4.0

**Relevant Courses:** Biostatistical Methods; Data Science; Clinical Trial Methodology; Epidemiology

**Rutgers University, New Jersey, United States**

May 2018

**South China University of Technology (SCUT), Guangzhou, China (Joint Program)**

Bachelor of Science in Public Policy (Health and Environment) GPA: 3.82/4.0

Minor in Business Administration

**Honors and Awards:** Dean's Honor List (2016 – 2018); National Endeavor Fellowship (2016)

**Relevant Courses:** Drugs, Culture and Society; Bullying and Violence; Sexual and Reproductive Policy

## RESEARCH EXPERIENCE

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**Columbia University Department of Psychiatry, NY** Jun 2019 – Present

*Research Assistant, LeeLab*

**Project:** Examining the effect of physical activity on cognitive ability in healthy adults

- Identified inconsistent parts of data and modified them to produce uniform datasets for data harmonization
- Merged multiple datasets of physical activity, cognition and brain imaging for 480 healthy adults aged 20-80
- Conducted preliminary analysis to test the association between physical activity, cognition and white matter hyperintensity burden
- Conducted two-part models and inflection point estimation using R

**New York State Psychiatric Institute, NY**

Feb 2019 – Present

*Data Intern, Boricua Youth Study*

- Harmonize variables between waves in a longitudinal study launched in 2001 for over 2,000 Boricua children
- Identify inconsistencies in the fourth-wave dataset with over 3,000 records using SPSS
- Create Dialogix information system codebook for a next-generation study of Environmental influences on Child Health Outcomes (ECHO) program

**Bureau of Statistics in Longhua District, Shenzhen, China**

Summer 2017

*Research Assistant*

- Rotated samples for 2018 Household Survey and prepared supporting documents for further surveys
- Assisted neighborhood committees to collect basic information

## WORK EXPERIENCE

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**Molkem Chemicals, Shanghai, China**

Summer 2018

*Assistant*

- Attended 2018 CPhI (Convention on Pharmaceutical Ingredients) in Shanghai, China
- Researched on natural extract manufacturers and built connections to qualified exhibitors

**Edward J. Bloustein School of Planning and Public Policy, Rutgers University**

2017 – 2018

*Student Ambassador*

- Introduced our academic programs by regularly giving presentations to students and attending school fairs
- Collected data of prospective students and uploaded to customers relationship management system

## SKILLS

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**Technical:** R, Mplus, SAS, SQL, SPSS, Microsoft Office Master 2013

**Language:** Mandarin (native), Cantonese (native), English (fluent)

## **LEADERSHIP EXPERIENCE**

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### **Rutgers Chinese Students and Scholars Association**

**Aug 2016 – May 2018**

*Business Director*

- Led our team to raise about \$20,000 funds for the organization
- Maintained relationships with 10-15 sponsors each year

### **Student Union of Public Administration School, SCUT**

**Aug 2014 – July 2016**

*Director*

- Organized academic activities which had more than 300 attendees
- Collected and updated the academic database to build an academic information system