

# Yifei Chen

Email: yc4587@cumc.columbia.edu

Tel: +1 5184954558

Address: New York City, NY

## EDUCATION

### Columbia University

New York, NY

08.2024 - Present

- Master of Science in Biostatistics
- Relevant Courses: Data Science II, Probability, Statistical Inference, Linear Regression Model

### Skidmore College

Saratoga Springs, NY

08.2020 - 01.2024

- Bachelor of Science in Mathematics, Department of Mathematics
- **GRE**: 334 (V164 + Q170) + AW 4.0
- **Honors**: Member at the Association for Women in Mathematics (AWM)

## WORKING EXPERIENCE

### Archytas Clinical Solutions Analyst Intern

05.2023 - 08.2023

- Validated and prepped new R open-source packages for CRAN publication.
- Crafted packages in R and SAS for rapid computation of biomedical statistical indicators, including median, variance, and confidence intervals.
- Benchmarked results between R and SAS; assessed function viability and refined SAS packages for consistent outcomes.

### State Development and Investment Corp Data Analyst Intern

07.2022 - 08.2022

- Streamlined and integrated data within Smartbi using MySQL, aligning with the HR system's framework and enhancing report visualization capabilities.
- Conducted rigorous functional tests to ensure platform modules met product standards.
- Collaborated on back-end data module troubleshooting, meticulously recording procedures in Jira.

### Software's Statistical Department Beijing Jiuqi Co., Software Implementation Engineer Intern

12.2020 - 01.2021

- Curated a detailed operational manual and usage guide for the comprehensive statistical system to assist customers.
- Contributed to a pivotal statistics project, integrating departmental data into the primary system.
- Harmonized business data to produce output tables through a structured model.
- Filtered and organized data, crafting a streamlined version for the new statistical system.

## ACADEMIC EXPERIENCE

### Summer Research of Biostatistics

05.2023 - 10.2023

Supervisor: Prof. Qianqian Song, Wake Forest University

- Analyzed 8 seminal papers on cellular function and disease mechanisms, with a deep focus on the scENT paper's insights into gene clusters and Alzheimer's Disease.
- Acquired proficiency in advanced deep learning techniques, such as LSTM, RNN, and Self-Attention Mechanism, tailored for single-cell RNA-seq data analysis.
- Reproduced a sophisticated deep learning framework in Python for gene cluster analysis.

### Final Project of CS 106 Introduction to Computer Science (Python)

09.2022 - 12.2022

- Employed NumPy, Pandas, Matplotlib, and Seaborn for data manipulation, analysis, and visualization tasks.
- Developed and tested a Gluttonous Snake Game, emphasizing dynamic snake movement controls.
- Constructed a February calendar using the Zeller formula to align month-day-week correspondences.

### Coursework of MS 204 Statistical Methods

01.2022 - 05.2022

- Formulated and tested hypotheses based on provided statements, reporting pertinent test statistics and p-values while elucidating p-value significance.
- Assessed conditions for hypothesis testing through mathematical models, determined test statistics and p-values, and delivered conclusive interpretations in context.

## ACTIVITY

### Grader at Skidmore College

09.2022 - 12.2023

- Assisted our professor in correcting the assignments of Linear Algebra.
- Involved in the tasks of recording the results, and input into the management system of Skidmore college.

### Teaching Assistant at DDC Academy

09.2022 - 12.2023

- Supported foreign instructors in smoothly conducting online classes for "Introduction to Number Theory."
- Fostered communication between DDC and foreign educators, students, and families.
- Participated in TA Reflection sessions, offering prompt and precise feedback on professional matters.

## OTHERS

**Skills**: Python, R, SAS, Matlab, Latex

**Interests**: Fitness, playing tennis and badminton, playing the piano and the guitar, dancing