

Jingyi Yao

Tel: (646)-552-9946 | E-mail: jy3269@cumc.columbia.edu

EDUCATION

Columbia University Mailman School of Public Health

Sept. 2022 – May. 2024 (Expected)

Master of Science in Biostatistics

New York

- Theory and Methods Track
- Relevant Courses : Data Science I, Probability, Biostatistical Methods I, Epidemiology

East China Normal University (ECNU)

Sept. 2018 – June. 2022

Bachelor of Science in Statistics

Shanghai

- GPA : 3.67 / 4.00
- Relevant Courses : Mathematical Statistics, Multivariate Statistical Analysis, Statistical Software, Statistical Learning in R

INTERNSHIP EXPERIENCE

Eli Lilly and Company

Mar. 2021 – Mar. 2022

Data Sciences and Solutions Intern

Shanghai

- Designed an interactive visualization platform based on R Shiny and Tableau to generate tables, figures and listings (TFLs).
- Developed an automated system programmed in R to pre-process, integrate and analyze clinical data and generate reports.
- Assisted programmers and biostatisticians with R/SAS code optimization and Case Report Form (CRF) annotation.
- Collaborated with data scientists to write reports and communicate results to ensure clinical data accuracy.

RESEARCH EXPERIENCE

Statistical and Computational Methods for single-cell RNA Sequencing Data

Sep. 2021 – May. 2022

Research Assistant

Shanghai

- Implemented dimension reduction methods (PCA, t-SNE, UMAP) on real and simulated scRNA-seq data and designed an evaluation framework to compare their accuracy, stability and computational performance.
- Conducted differential expression analysis on a factorial design to assess the impact of the cancer drug doxorubicin on the hearts of mice with different genetic backgrounds using the Bioconductor limma package.
- Familiar with the various scRNA-seq data pre-processing functions in the R Seurat package, including quality control, normalization, data integration, correction of batch effects, feature selection, dimension reduction and visualization.

HONORS & AWARDS

- Academic Excellence Scholarship of ECNU (Top 10%) *Sept. 2021*
- Academic Excellence Scholarship of ECNU (Top 10%) *Sept. 2020*
- Meritorious Winner in Mathematical Contest in Modeling *May. 2020*

SKILLS

- Proficient in R (tidyverse, Shiny), familiar with interactive data visualization in R Shiny, Tableau and Power BI
- Familiar with Python (Numpy, Pandas, Seaborn, Matplotlib), SQL, SAS
- Good command of MS Office software
- Languages: English, Mandarin (Native), Cantonese (Native)

VOLUNTEER LEADERSHIP

AIESEC in ECNU

Feb. 2019 – Dec. 2019

Team Leader in oGV (outgoing Global Volunteer)

- Sent eight ECNU students to attend global volunteer programs in five different countries and received positive feedback.
- Attended one of the volunteer programs in Hong Kong to teach English in a kindergarten during summer vacation.