

Yuqing Liu

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EDUCATION

Columbia University Mailman School of Public Health

New York, NY May 2024

Master of Public Health Epidemiology (MPH), Certificate Epidemiology of Chronic Disease, GPA: 4.0/4.0

Relevant Coursework: Chronic Disease Epidemiology | Epidemiology Research Methods | Analysis of Categorical Data | Design and Conduct of Observational Epidemiology

Duke Kunshan University

Kunshan, China, May 2022

Bachelor of Science, Global Health, Concentration Biology GPA: 3.7/4.0, Dean's List

TECHNICAL SKILLS & CERTIFICATION

- Proficient in STATA, SAS, R Studio, Python, MATLAB, ArcGIS
- Proficient in Microsoft Office Applications, Adobe Premiere and Adobe Lightroom
- Supervised Machine Learning, granted by Stanford University Jul 2023
- Survival Analysis in R for Public Health, granted by Imperial College London Jun 2022
- Data and Health Indicators in Public Health Practice, granted by Johns Hopkins University May 2021
- COVID-19 Contact Tracing, granted by Johns Hopkins University Dec 2020

EXPERIENCE

New York City Department of Health and Mental Hygiene

New York, NY

Summer Intern, Department of Epidemiology, Bureau of Epidemiology Services

Jul 2023 – Present

- Researched the prevalence of food insecurity in New York City and conducted a validation analysis using Hunger Vital Sign as a new indicator to measure food insecurity using SAS and SUDAAN
- Compared the discordance and concordance of food insecurity status by the Hunger Vital Sign and the gold standard and conducted predictive variables including multiple chronic diseases using multinomial regression.
- Applied machine learning techniques to predict food insecurity status using sociodemographic and food support features.

Jiangsu Provincial Disease Control and Prevention Center

Nanjing, China

Summer Intern, Department of Infectious Disease

Jun 2021 – Aug 2021

- Conducted data sorting and literature reviews of Covid-19 breakthrough cases.
- Reported and recorded the numbers and results of daily tested samples from the Provincial Disease Control Laboratory.
- Statistically analyzed around 5000 Covid-19 nucleic acid daily tested results and the trend of positive cases number.

ACADEMIC PROJECTS: Statistical Analysis (Duke Kunshan University)

Development Countermeasure of Healthcare Service for the Aged in Chongqing

Jan 2021 – Jun 2022

- Evaluated the elderly health service system in Chongqing, the combination of medical care, the present situation of hospice care supply, the existing problems, and the development countermeasures.
- Designed survey for investigating and monitoring the present palliative care conditions in Chongqing.

Relationship Between Heart Rate and All-cause Mortality Among Chinese Adults Aged 65-79

Mar 2021 – May 2022

- Conducted survival analysis to examine the effect of heart rate on survival probabilities using R.
- Made crude adjustment for the mortality rate to assess the risk of death in each heart rate group.
- Built multivariable-adjusted Cox proportional hazard regression models to compare the hazard ratios of mortality in different heart rate groups.

A Community Empowerment-Based Approach (CEBA) Study in Mechanisms and Path Analyses for Health Management among Chronic Diseases Patients in Urban China

Aug 2020 – Jan 2022

- Evaluated the function of community empowerment in non-communicable disease (NCD) control by collecting physical health information through 100 in-person surveys, interviews, and body measurements.
- Transcribed the recording of the project interview in research of National Natural Science Foundation of China.

Aldehyde dehydrogenase 2 rs671 Polymorphism and Multiple Diseases: An Umbrella Review

Sep 2019 – Jun 2021

- Performed systematic review regarding the relationship between ALDH2 gene and hypertension.
- Conducted quality control with PRISMA checklist, conducted data extraction and data validation with STATA.
- Created citation matrix, and citation library for the entire project.

PUBLICATIONS

- He, Z., Guo, Q., Ling, Y., Hong, C., **Liu, Y** et al., (2022). Aldehyde dehydrogenase 2 rs671 polymorphism and multiple diseases: protocol for a quantitative umbrella review of meta-analyses. *Syst Rev* 11, 185. <https://doi.org/10.1186/s13643-022-02050-y>
- Cao, S., Huang, H., Bo, S., Feng, M., Liang, Y., **Liu, Y** et al., (2022). What influences informal caregivers' risk perceptions and responses to home care safety of older adults with disabilities: A qualitative study. *Frontiers in public health*, 10.

LEADERSHIP

- Cofounder of Community Health Service Lab in Duke Kunshan University
- Volunteered in Lok Square Foundation, aiming to provide social support to autistic children
- Student worker and coordinator at Duke Kunshan University Health Values Lab